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## IMAGES ARE BEST AVAILABLE COPY.

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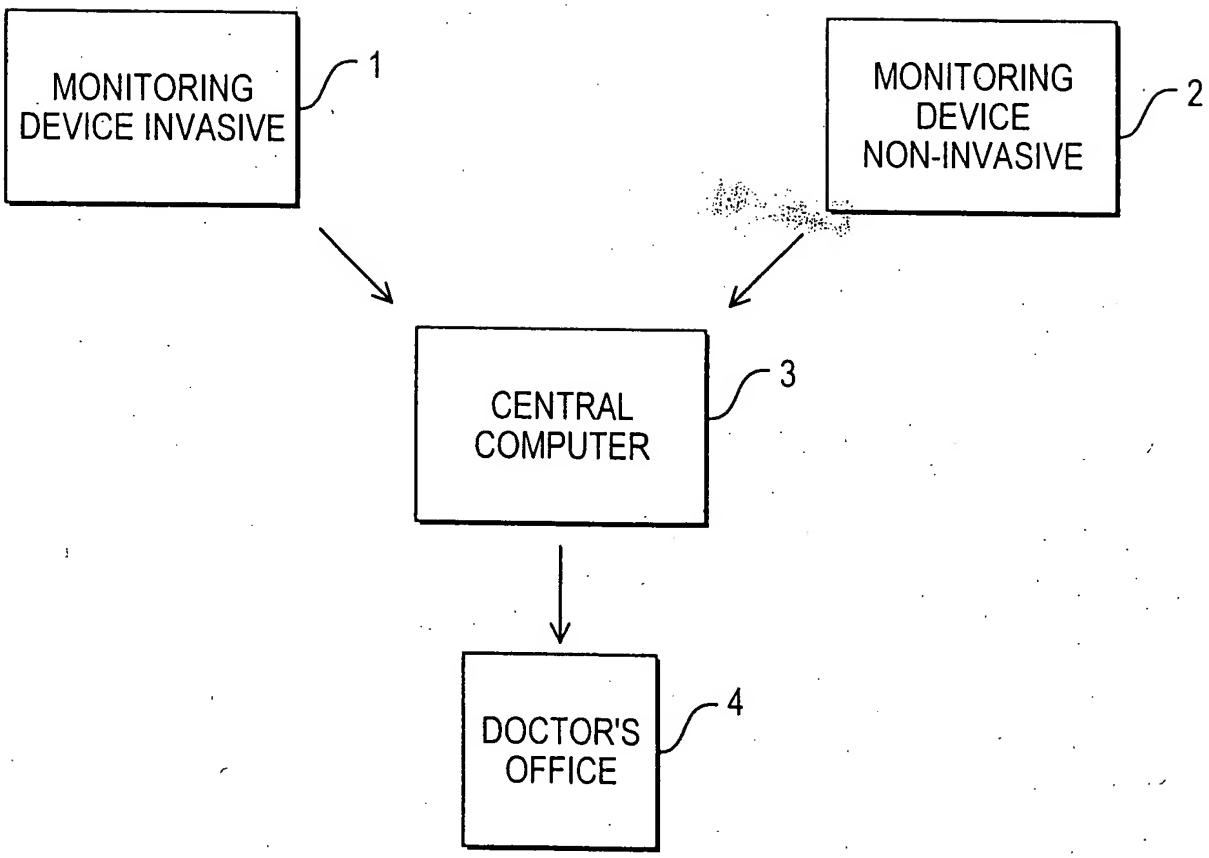
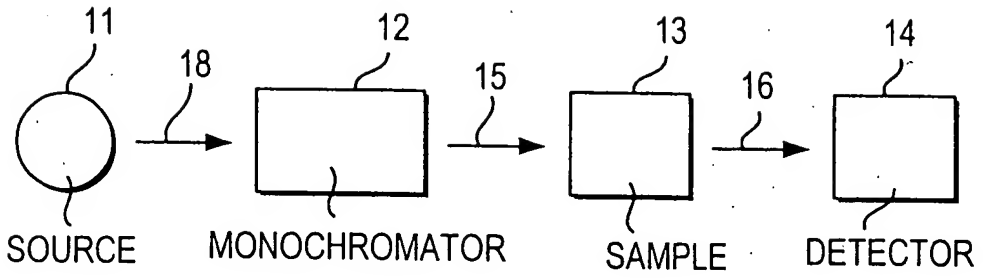
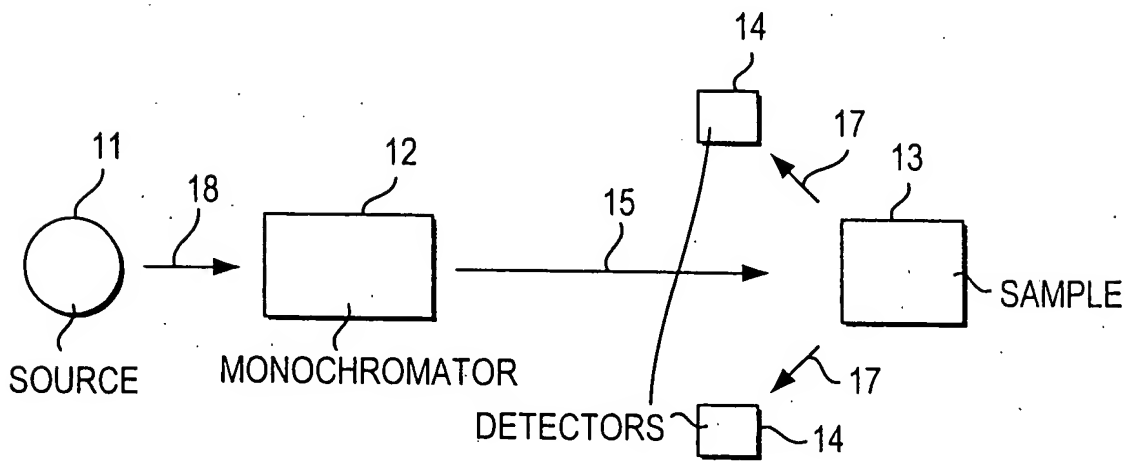

MONITORING DEVICE INVASIVE
1
MONITORING DEVICE NON-INVASIVE
2
CENTRAL COMPUTER
3
DOCTOR'S OFFICE
4

FIG. 1




NEAR-INFRARED TRANSMITTANCE (NIT)

FIG. 2(A)




NEAR-INFRARED REFLECTANCE (NIR)

FIG. 2(B)

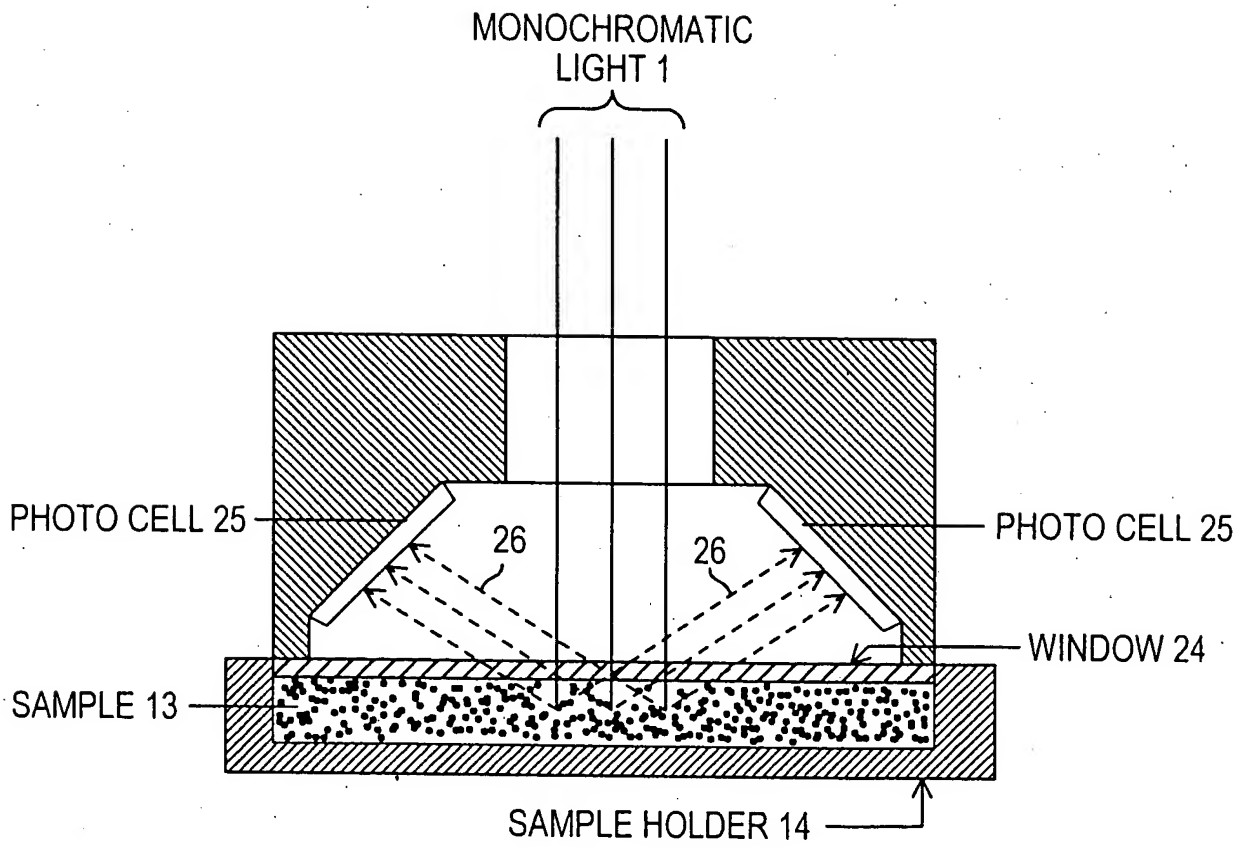

MONOCHROMATIC
LIGHT 1
PHOTO CELL 25
26
26
PHOTO CELL 25
WINDOW 24
SAMPLE 13
SAMPLE HOLDER 14

*FIG. 3*

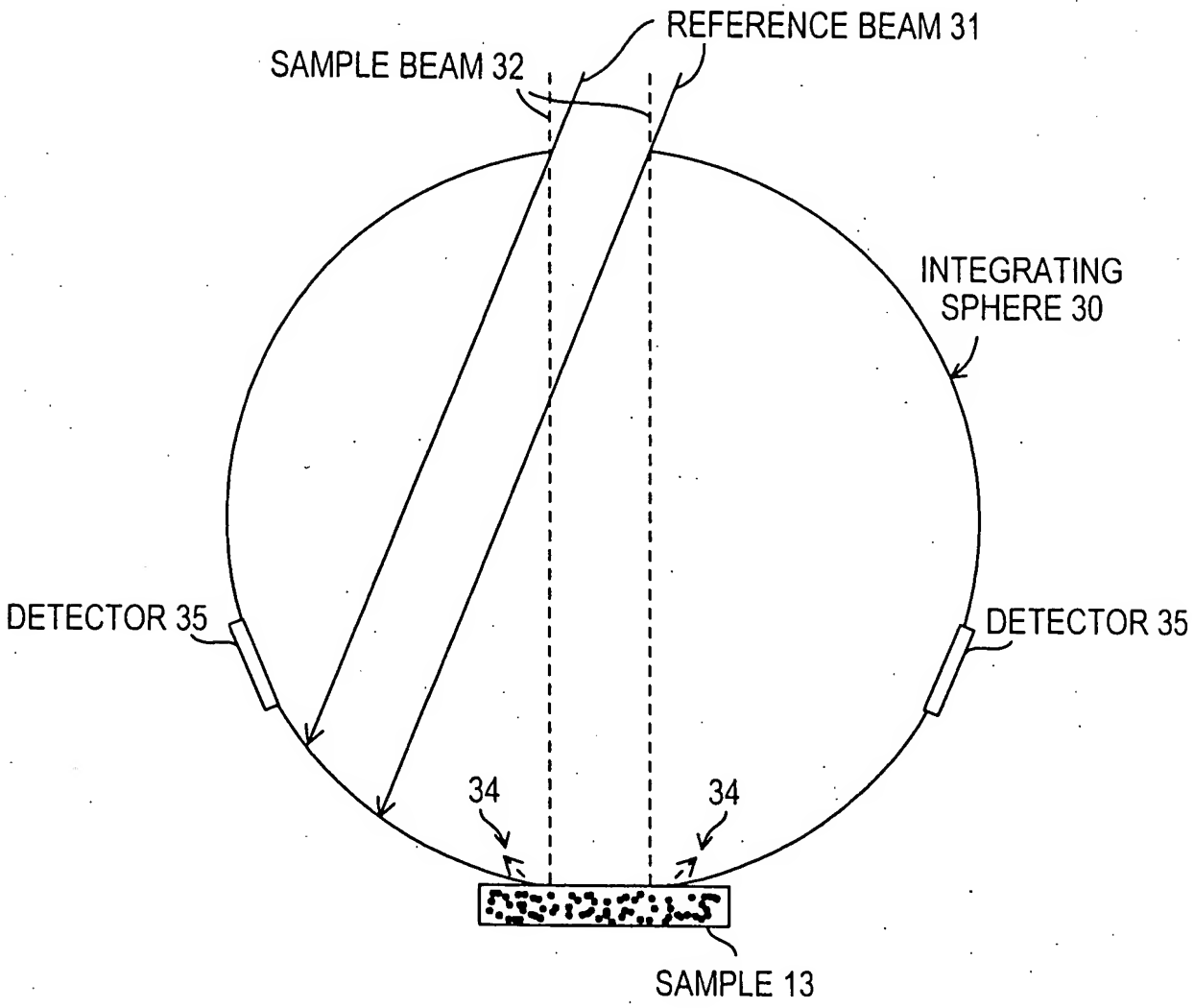

REFERENCE BEAM 31
SAMPLE BEAM 32
INTEGRATING SPHERE 30
DETECTOR 35
DETECTOR 35
34
34
SAMPLE 13

FIG. 4

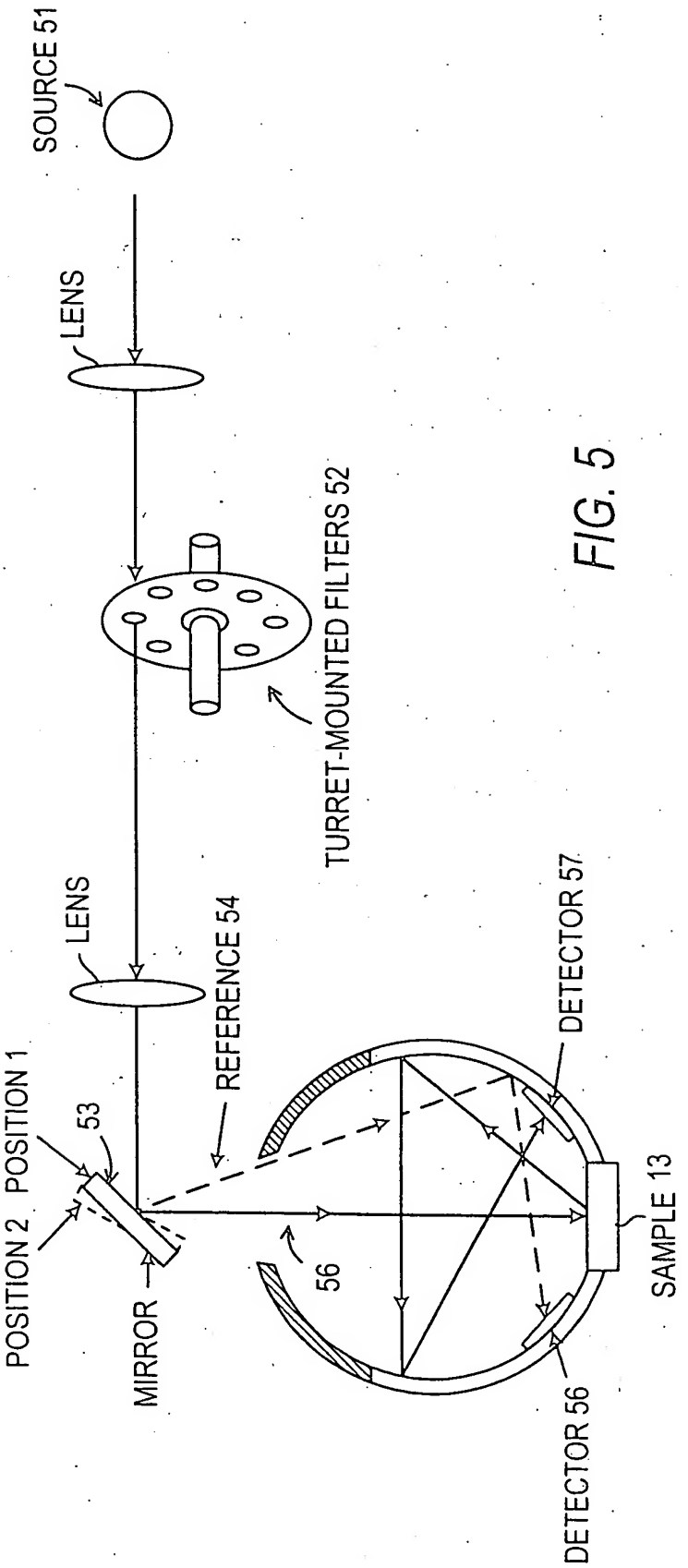

SOURCE 51
LENS
TURRET-MOUNTED FILTERS 52
LENS
REFERENCE 54
POSITION 1
POSITION 2
53
MIRROR
56
DETECTOR 57
SAMPLE 13
DETECTOR 56

FIG. 5

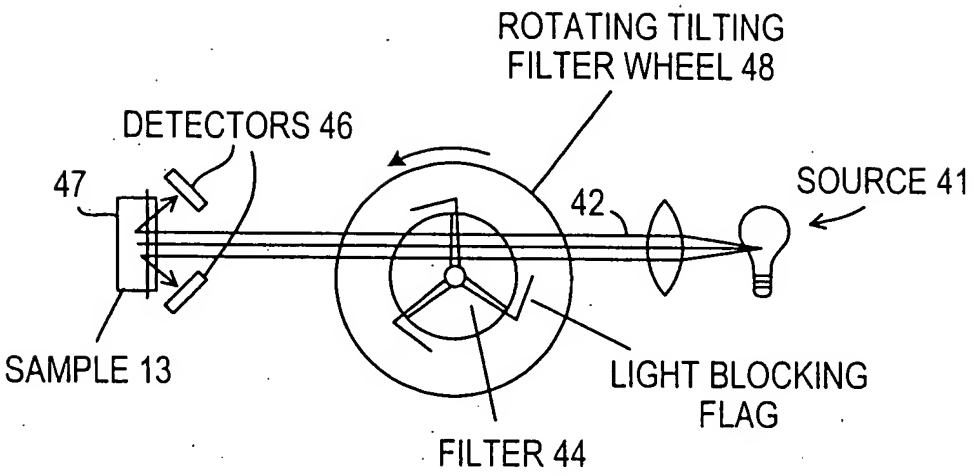

ROTATING TILTING
FILTER WHEEL 48
DETECTORS 46
47
42
SOURCE 41
SAMPLE 13
LIGHT BLOCKING
FLAG
FILTER 44

*FIG. 6*

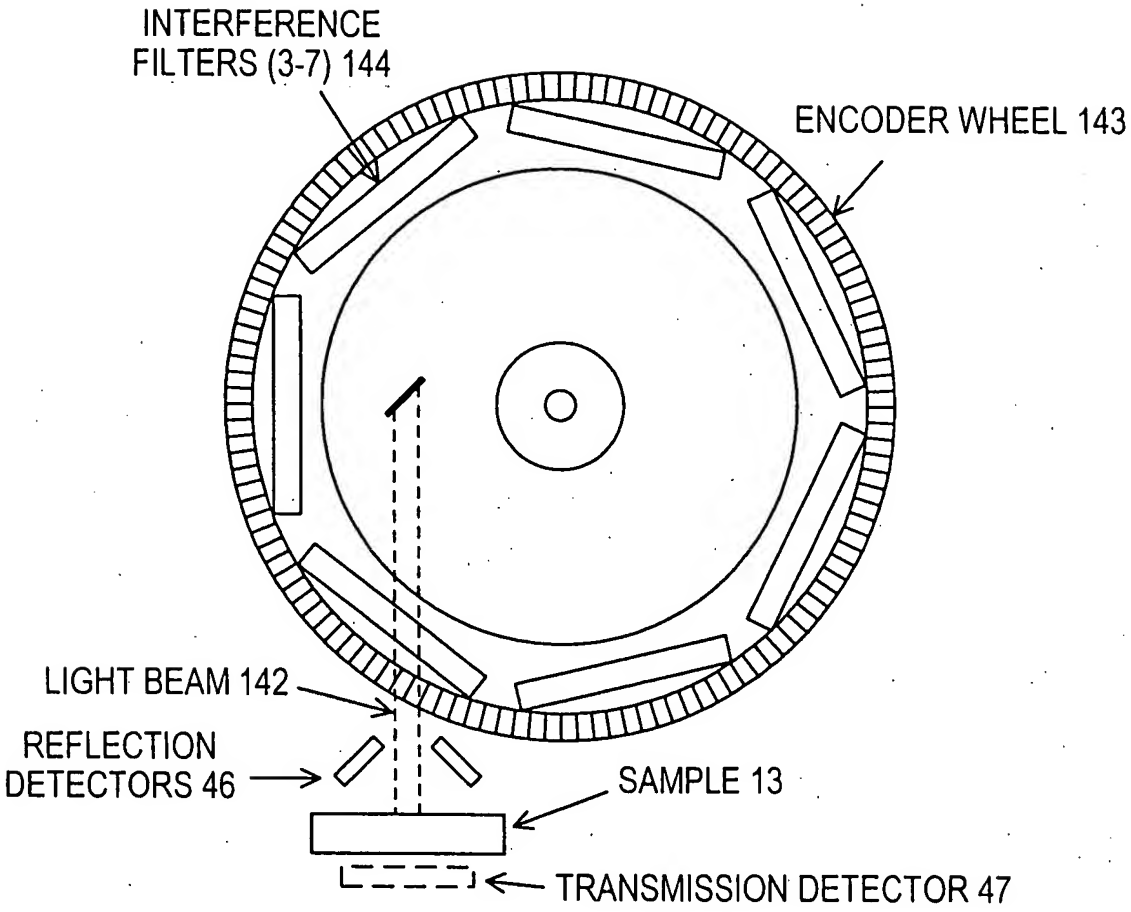
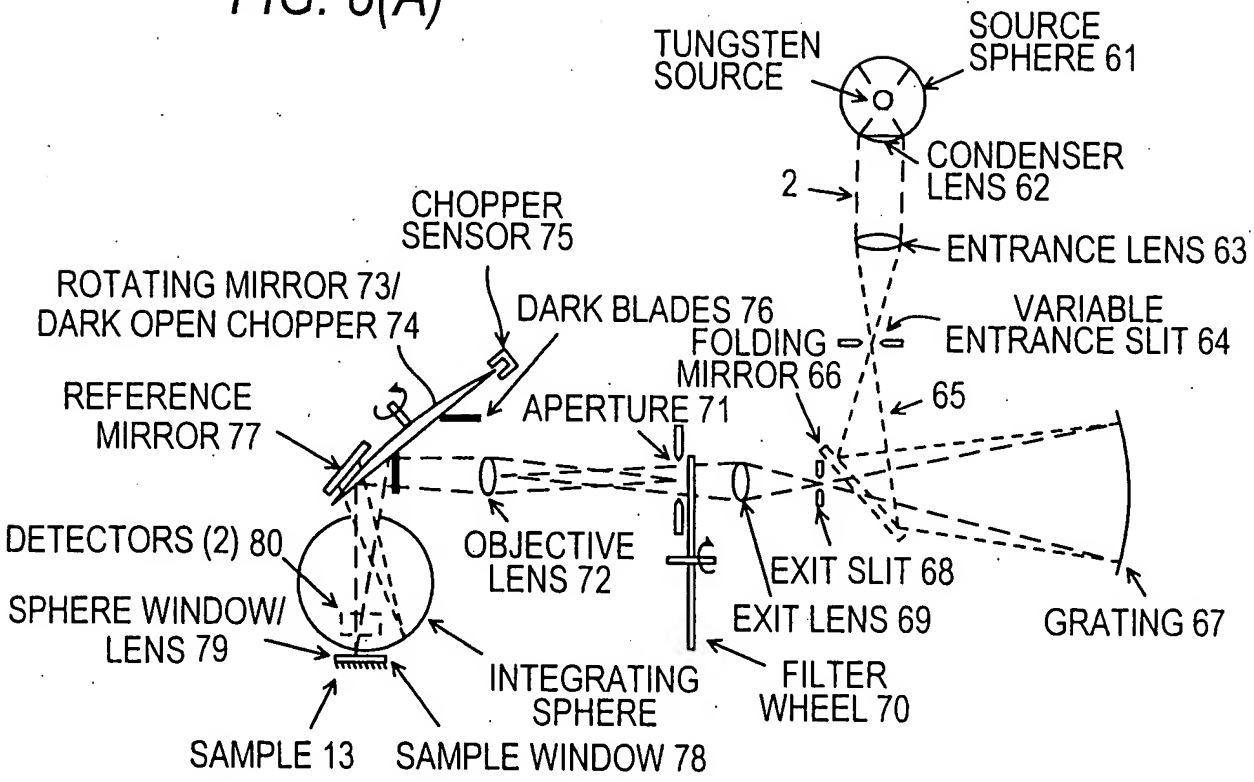

INTERFERENCE
FILTERS (3-7) 144
ENCODER WHEEL 143
LIGHT BEAM 142
REFLECTION
DETECTORS 46
SAMPLE 13
TRANSMISSION DETECTOR 47

FIG. 7

FIG. 8(A)


TUNGSTEN SOURCE
SOURCE SPHERE 61
CONDENSER LENS 62
2
CHOPPER SENSOR 75
ENTRANCE LENS 63
ROTATING MIRROR 73/ DARK OPEN CHOPPER 74
DARK BLADES 76
VARIABLE ENTRANCE SLIT 64
FOLDING MIRROR 66
65
REFERENCE MIRROR 77
APERTURE 71
DETECTORS (2) 80
OBJECTIVE LENS 72
EXIT SLIT 68
SPHERE WINDOW/ LENS 79
EXIT LENS 69
GRATING 67
INTEGRATING SPHERE
FILTER WHEEL 70
SAMPLE 13
SAMPLE WINDOW 78

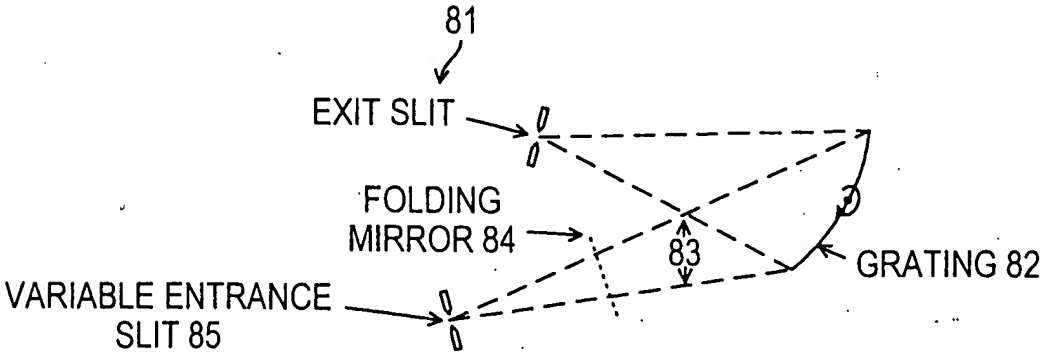

81
EXIT SLIT
FOLDING MIRROR 84
83
GRATING 82
VARIABLE ENTRANCE SLIT 85

FIG. 8(B)

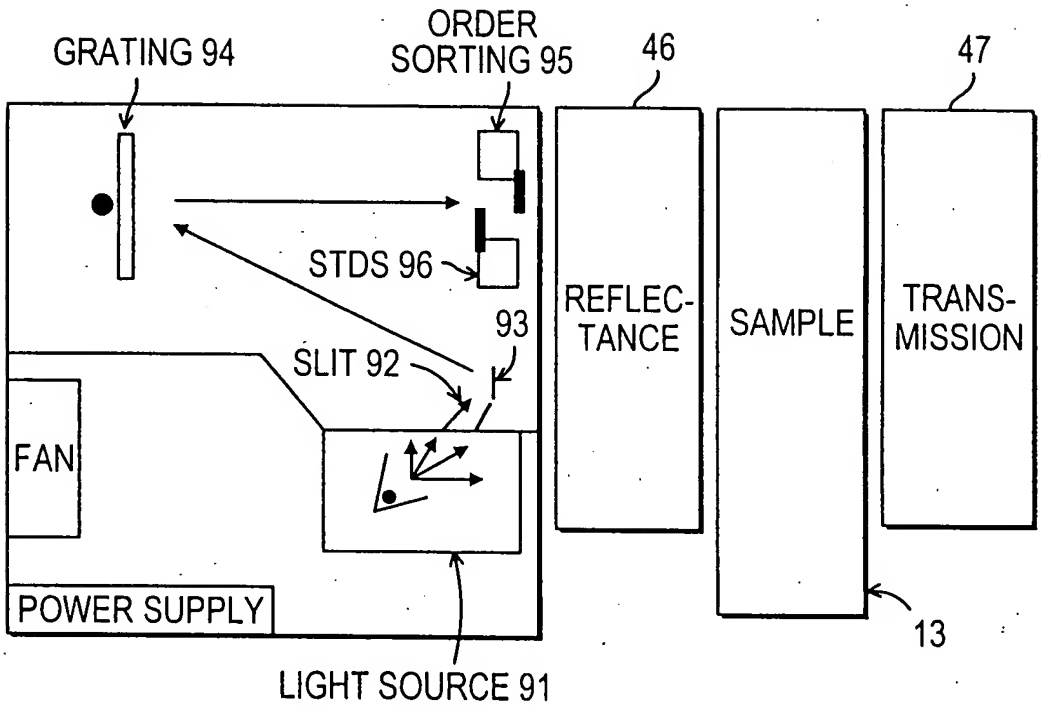

GRATING 94
ORDER SORTING 95
46
47
STDS 96
93
SLIT 92
REFLEC-TANCE
SAMPLE
TRANS-MISSION
FAN
POWER SUPPLY
13
LIGHT SOURCE 91

FIG. 9

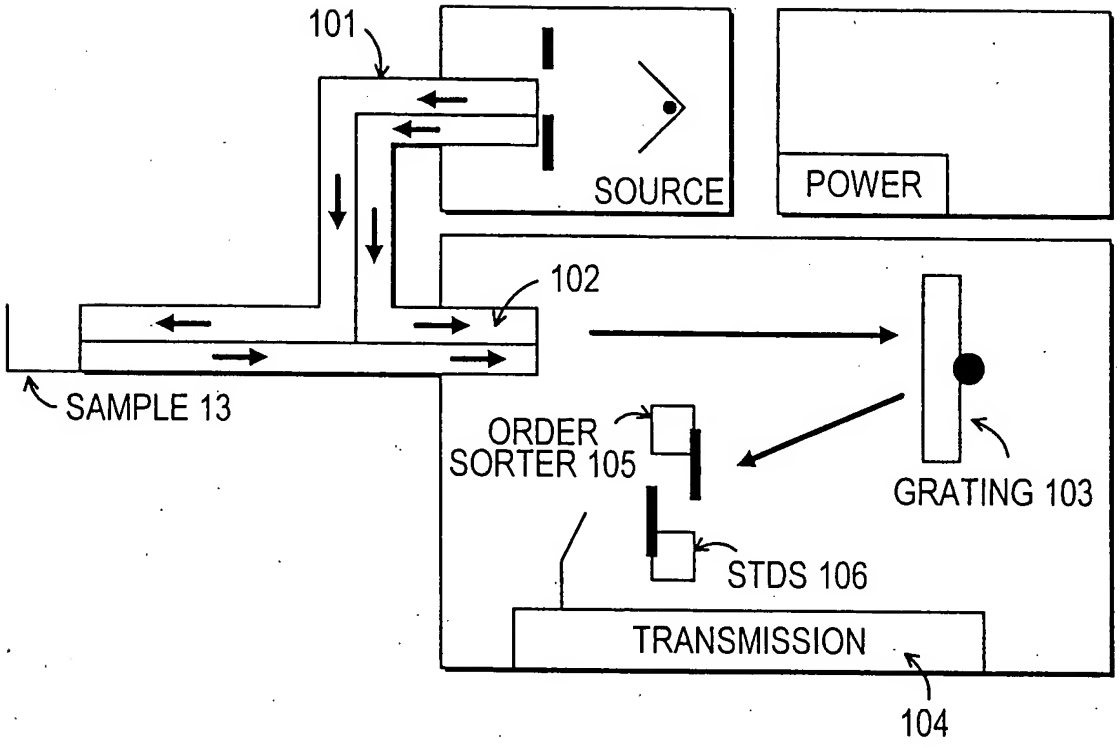

101
SOURCE
POWER
102
SAMPLE 13
ORDER
SORTER 105
GRATING 103
STDS 106
TRANSMISSION
104

FIG. 10

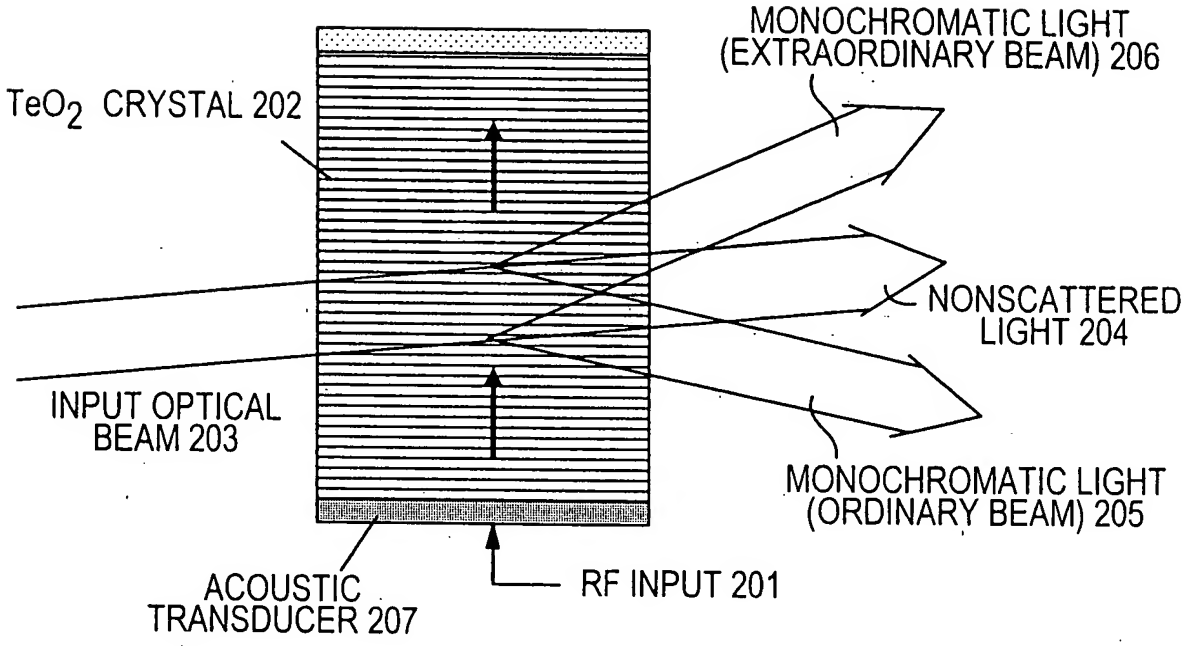

MONOCHROMATIC LIGHT
(EXTRAORDINARY BEAM) 206
$TeO_2$ CRYSTAL 202
NONSCATTERED
LIGHT 204
INPUT OPTICAL
BEAM 203
MONOCHROMATIC LIGHT
(ORDINARY BEAM) 205
ACOUSTIC
TRANSDUCER 207
RF INPUT 201

FIG. 11

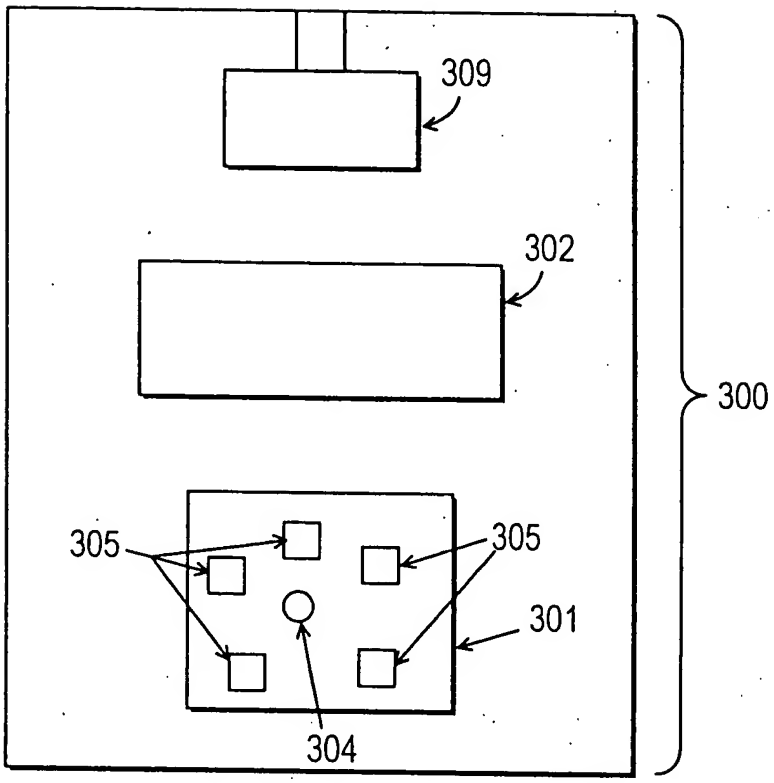



FIG. 12(A)

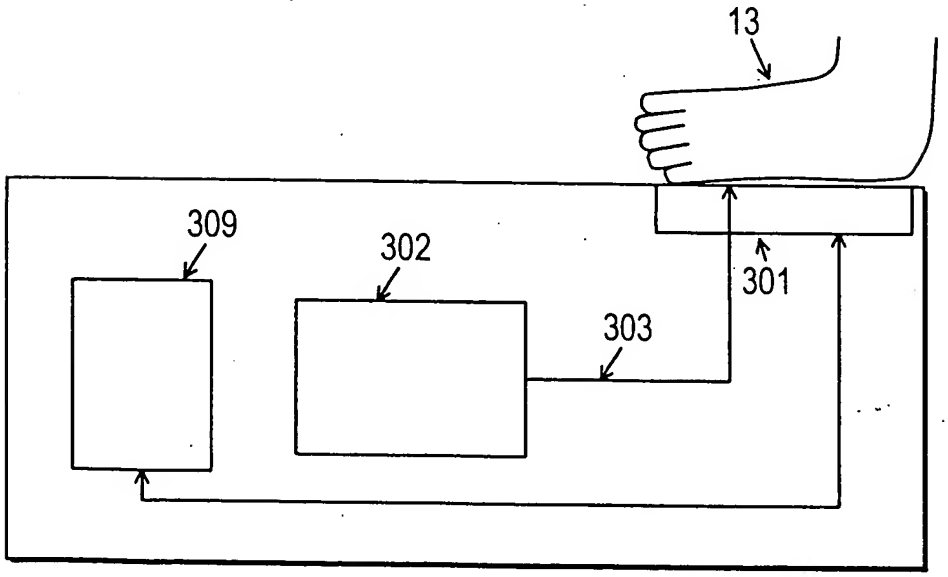



FIG. 12(B)

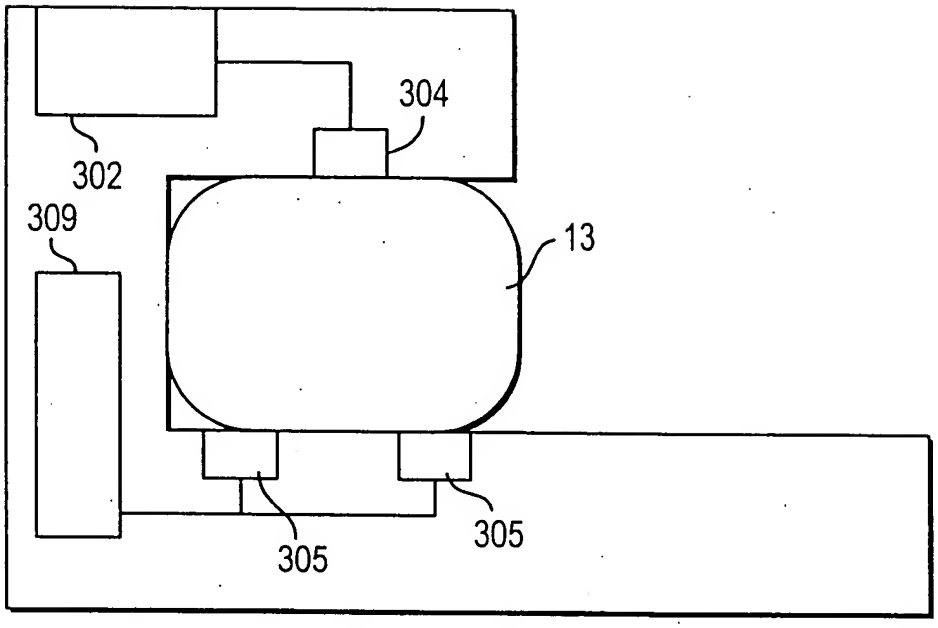



FIG. 12C

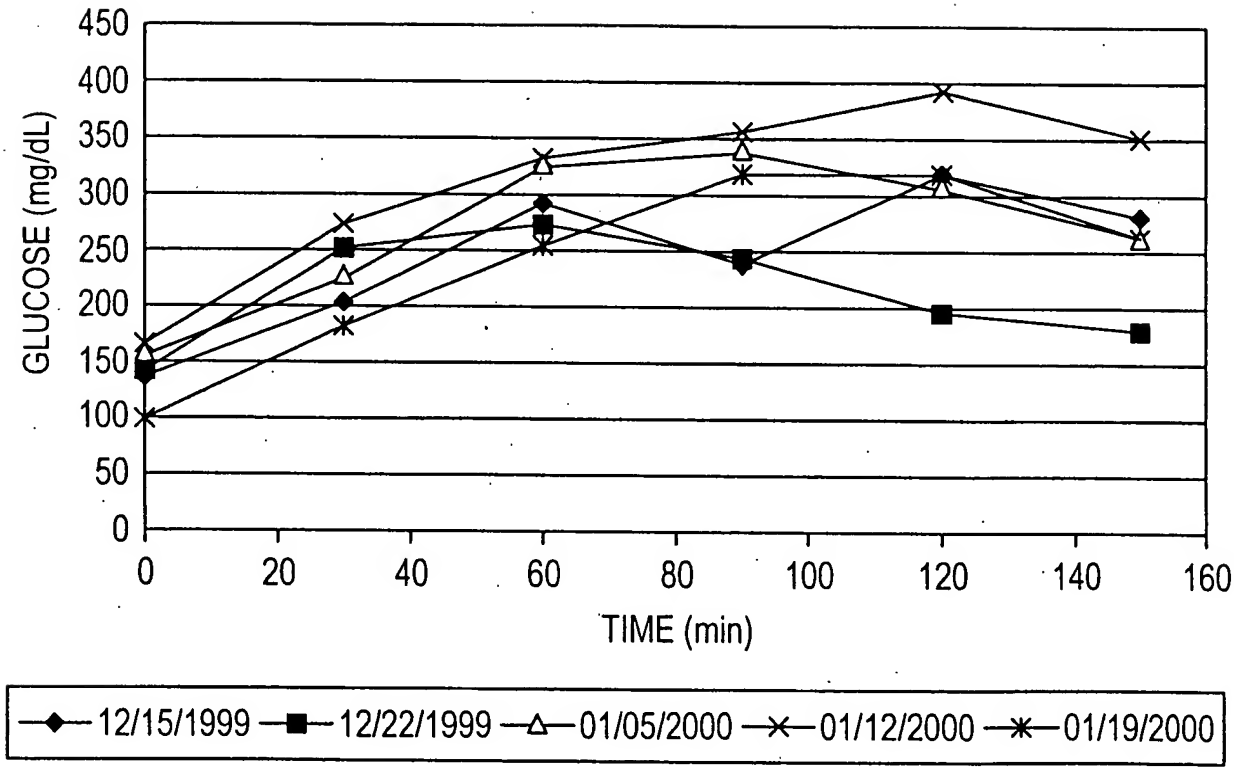

450
400
350
300
250
200
150
100
50
0
GLUCOSE (mg/dL)
0
20
40
60
80
100
120
140
160
TIME (min)
12/15/1999
12/22/1999
01/05/2000
01/12/2000
01/19/2000

FIG. 13A

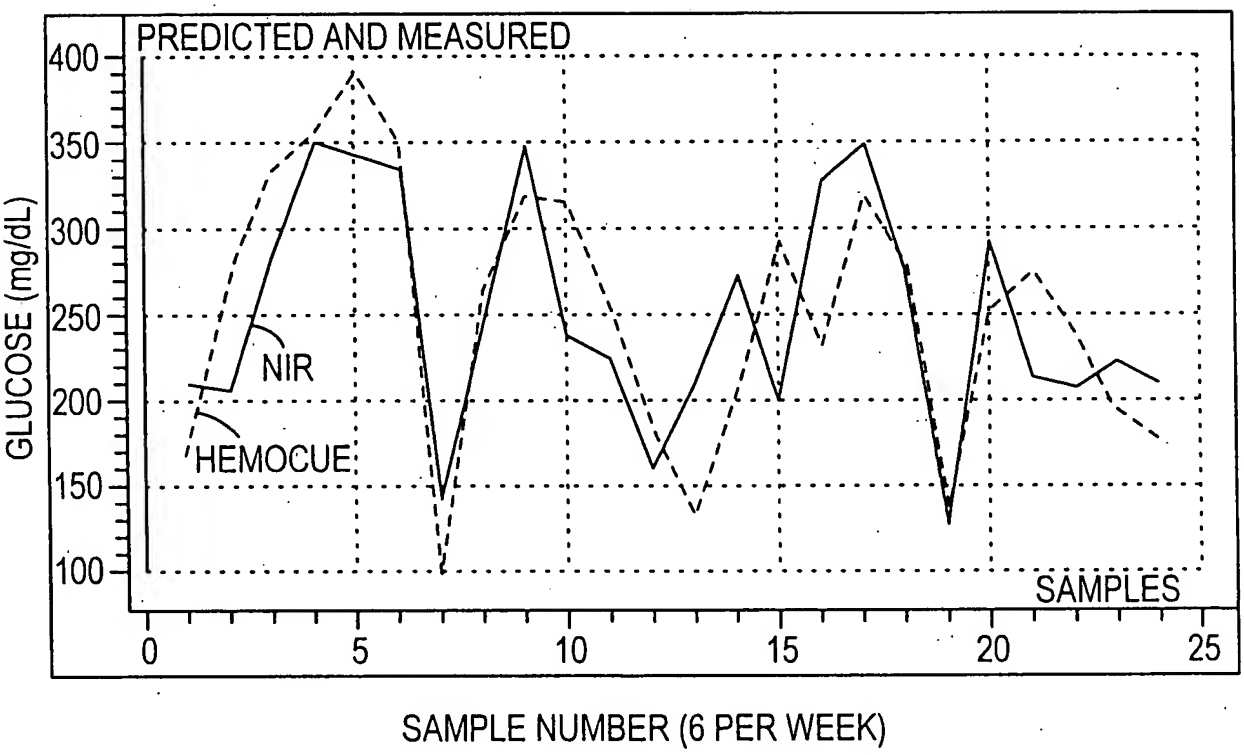

PREDICTED AND MEASURED
400
350
300
250
200
150
100
GLUCOSE (mg/dL)
NIR
HEMOCUE
SAMPLES
0
5
10
15
20
25
SAMPLE NUMBER (6 PER WEEK)

*FIG. 13B*

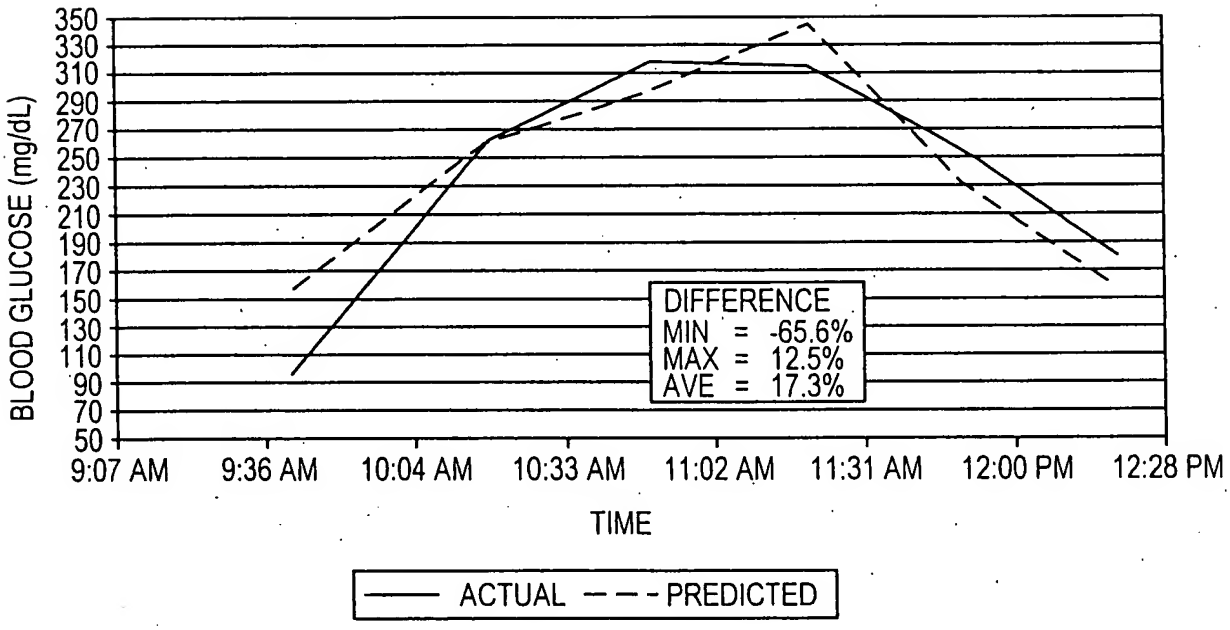

BLOOD GLUCOSE (mg/dL)
350
330
310
290
270
250
230
210
190
170
150
130
110
90
70
50
9:07 AM
9:36 AM
10:04 AM
10:33 AM
11:02 AM
11:31 AM
12:00 PM
12:28 PM
TIME
DIFFERENCE
MIN = -65.6%
MAX = 12.5%
AVE = 17.3%
ACTUAL
PREDICTED

FIG. 13C

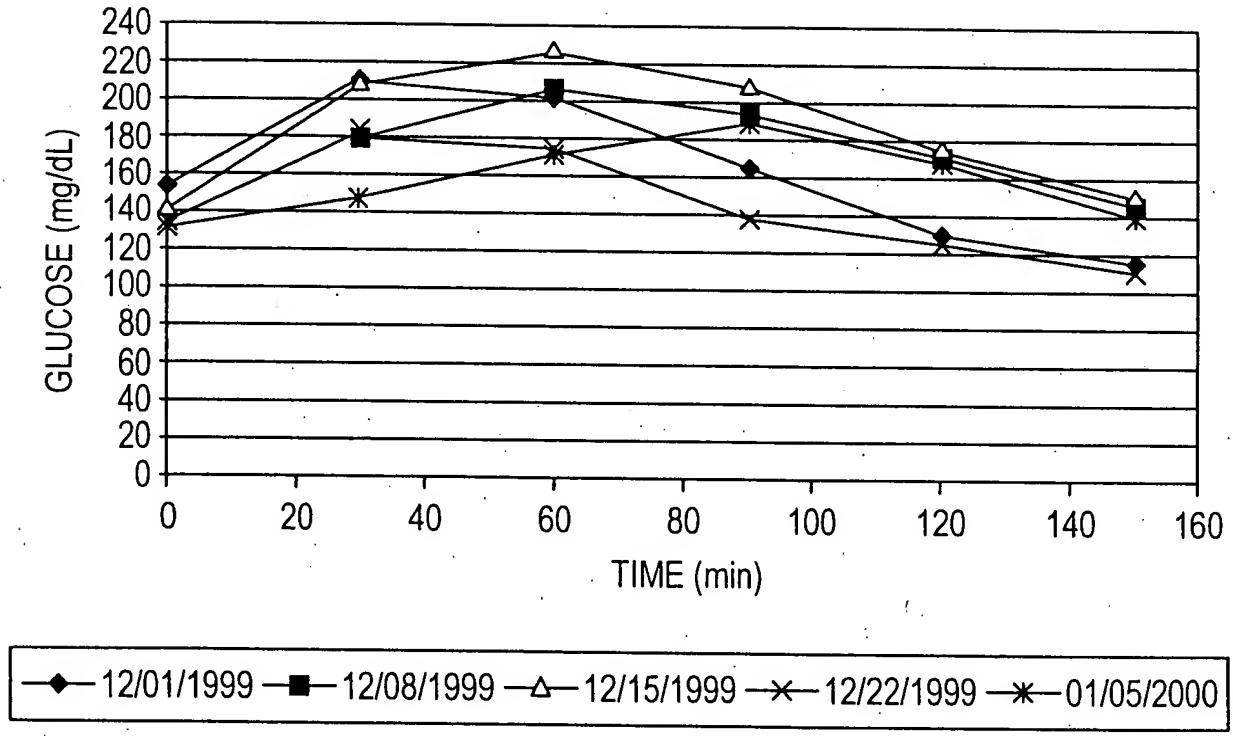

GLUCOSE (mg/dL)
240
220
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
TIME (min)
12/01/1999
12/08/1999
12/15/1999
12/22/1999
01/05/2000

FIG. 14A

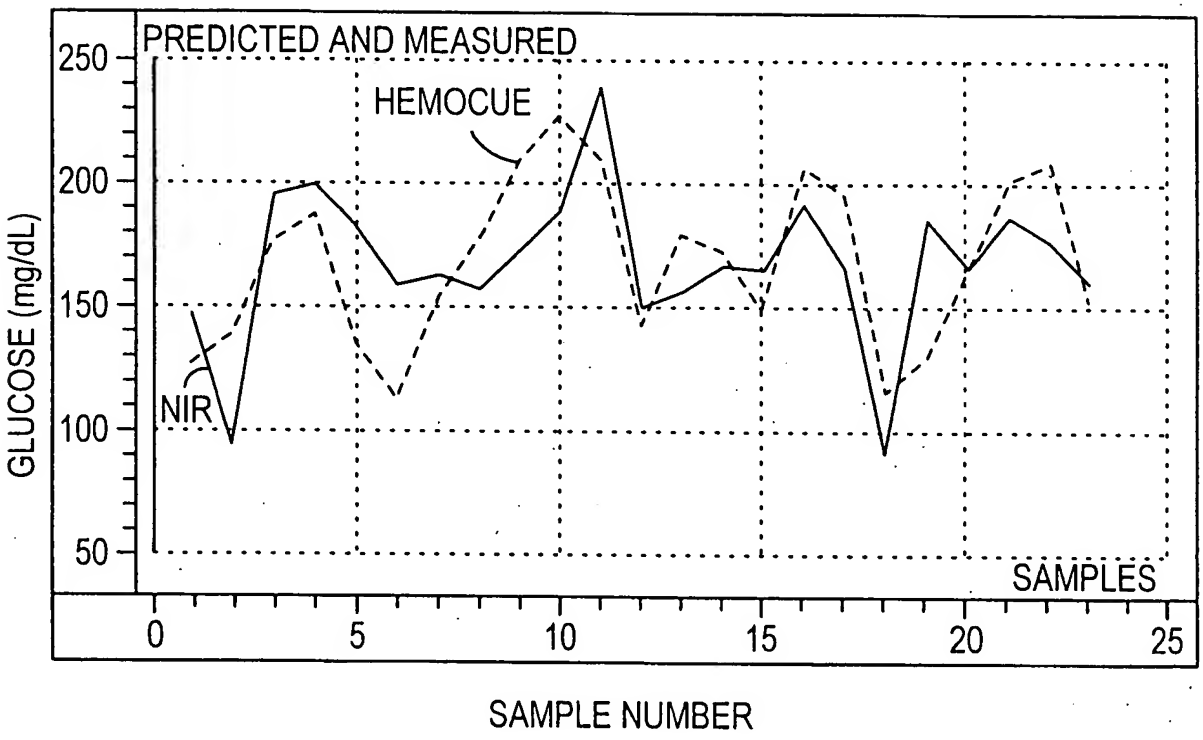

PREDICTED AND MEASURED
HEMOCUE
NIR
SAMPLES
GLUCOSE (mg/dL)
250
200
150
100
50
0
5
10
15
20
25
SAMPLE NUMBER

FIG. 14B

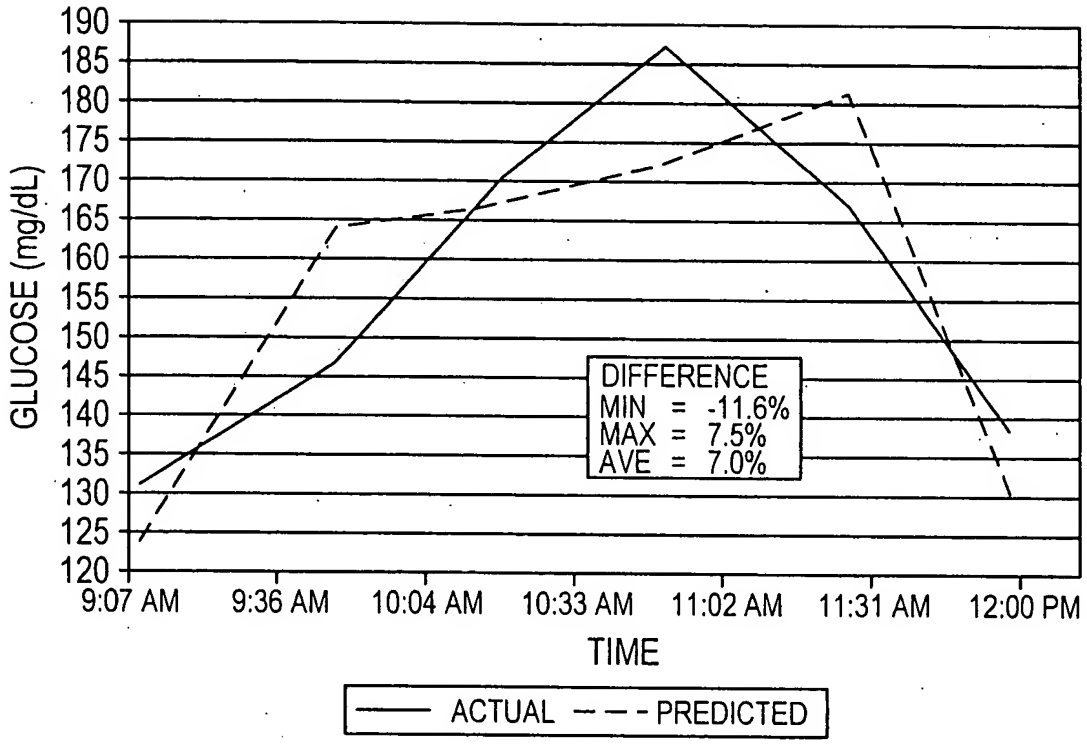

190
185
180
175
170
165
160
155
150
145
140
135
130
125
120
GLUCOSE (mg/dL)
9:07 AM
9:36 AM
10:04 AM
10:33 AM
11:02 AM
11:31 AM
12:00 PM
TIME
DIFFERENCE
MIN = -11.6%
MAX = 7.5%
AVE = 7.0%
ACTUAL
PREDICTED

FIG. 14C

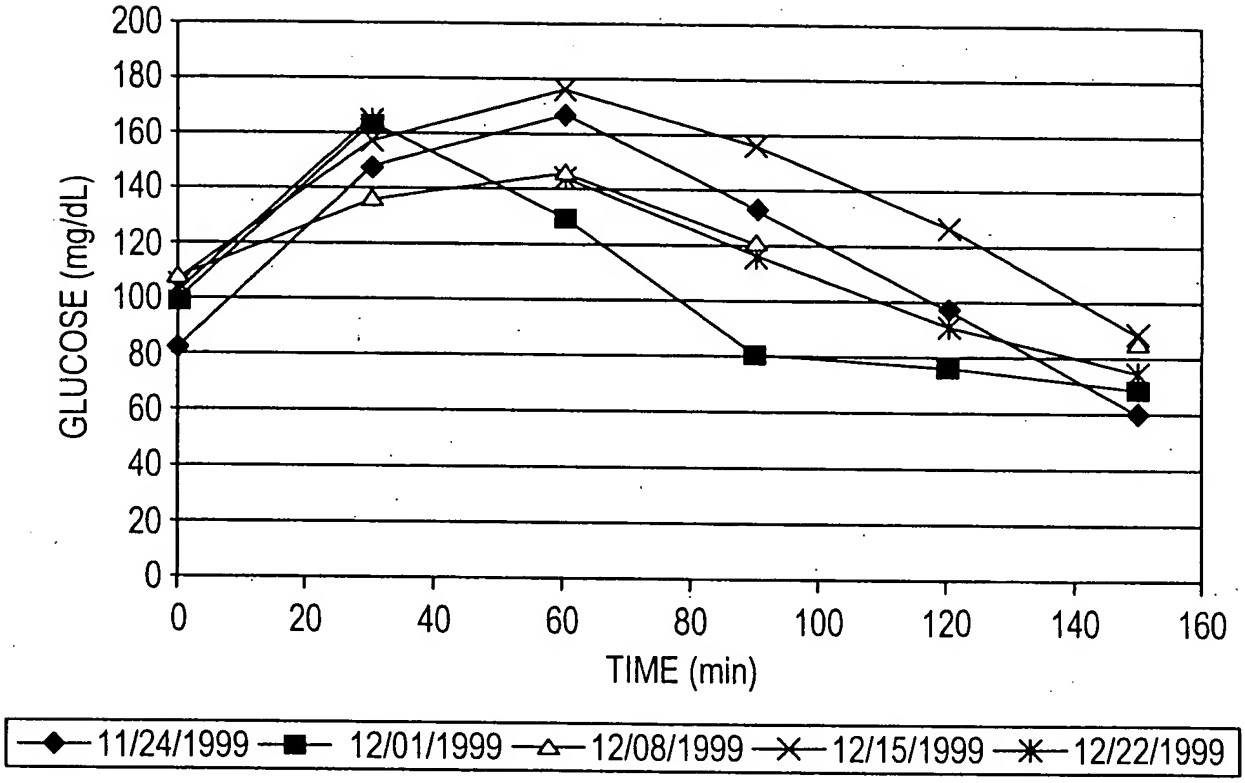

200
180
160
140
120
100
80
60
40
20
0
GLUCOSE (mg/dL)
0
20
40
60
80
100
120
140
160
TIME (min)
11/24/1999
12/01/1999
12/08/1999
12/15/1999
12/22/1999

FIG. 15A

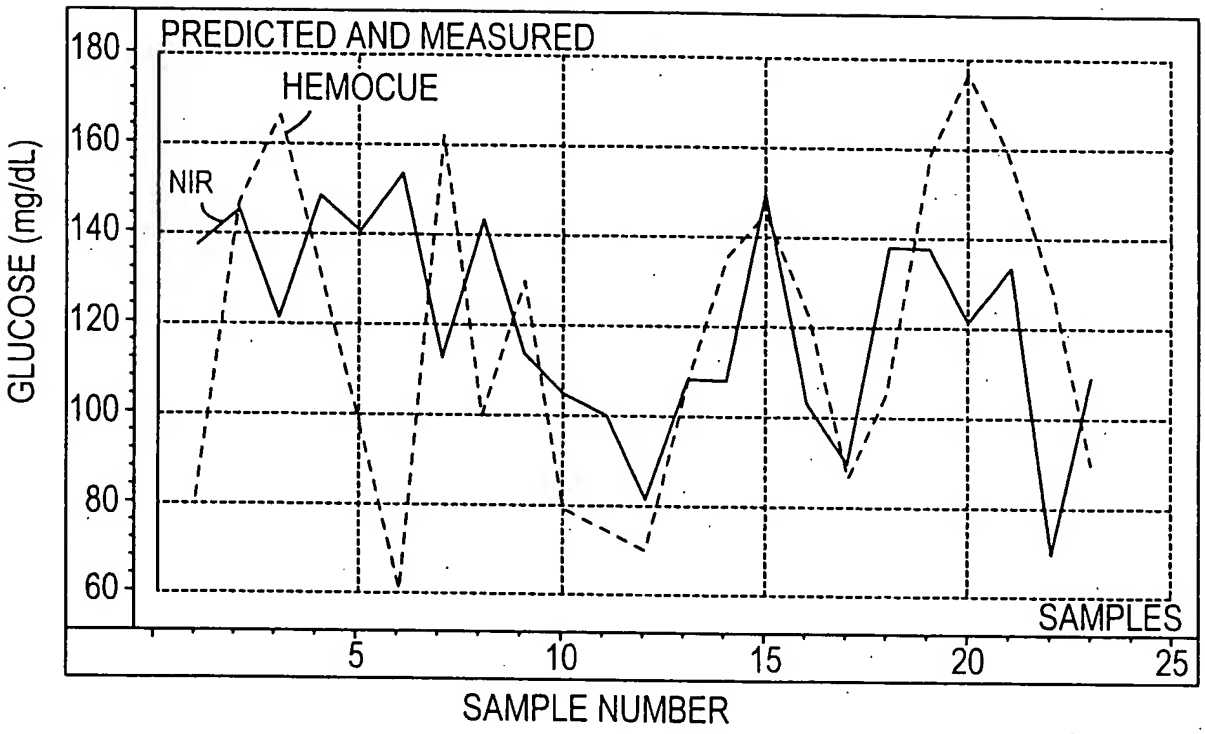

PREDICTED AND MEASURED
HEMOCUE
NIR
GLUCOSE (mg/dL)
180
160
140
120
100
80
60
SAMPLES
5
10
15
20
25
SAMPLE NUMBER

FIG. 15B

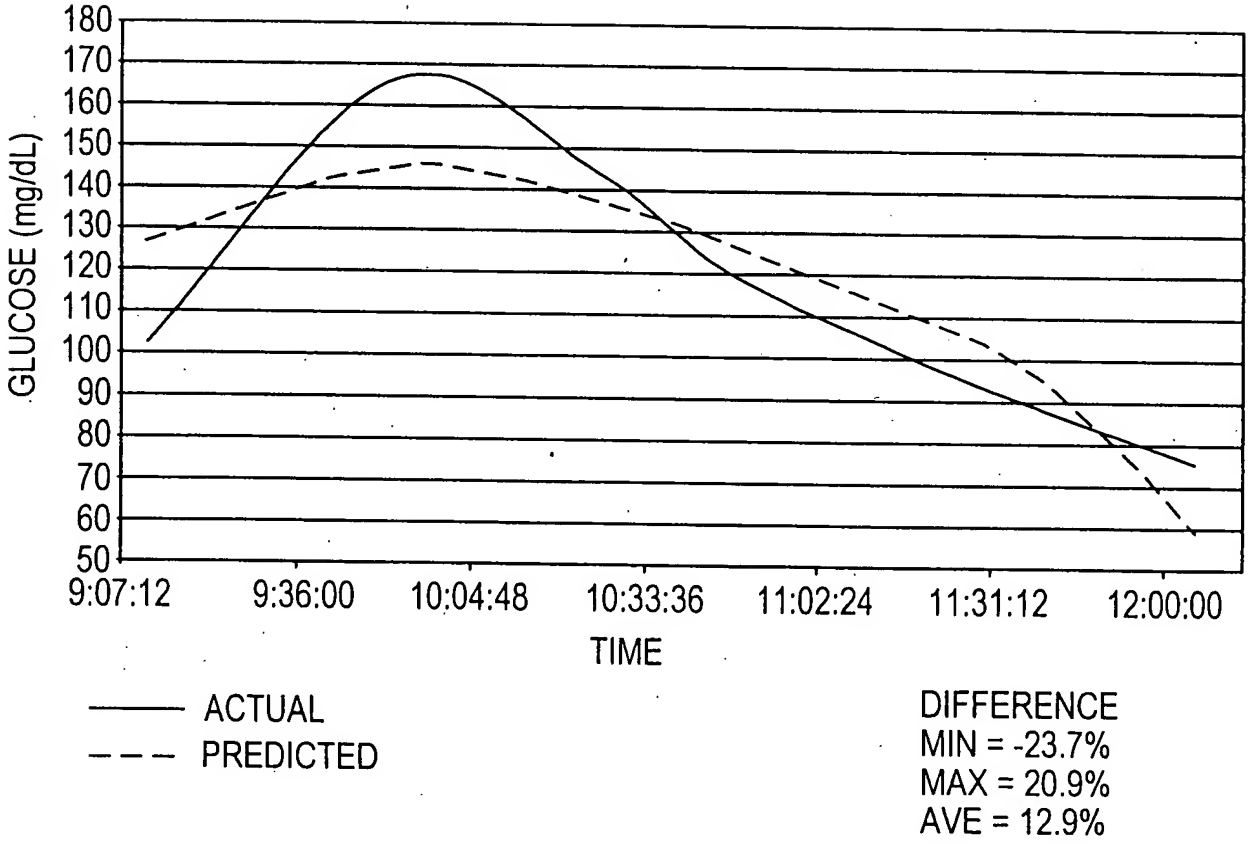

180
170
160
150
140
130
120
110
100
90
80
70
60
50
GLUCOSE (mg/dL)
9:07:12
9:36:00
10:04:48
10:33:36
11:02:24
11:31:12
12:00:00
TIME
ACTUAL
PREDICTED
DIFFERENCE
MIN = -23.7%
MAX = 20.9%
AVE = 12.9%

FIG. 15C

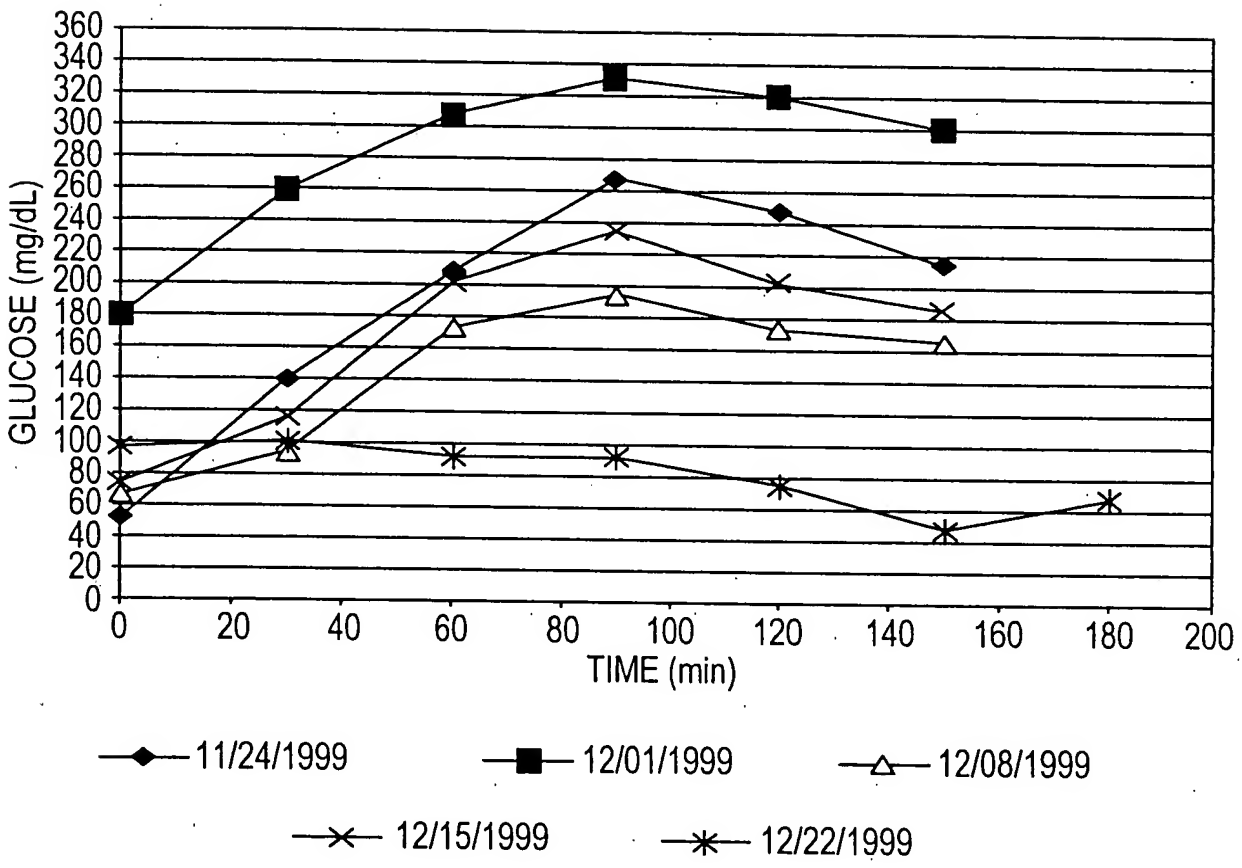

GLUCOSE (mg/dL)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
200
TIME (min)
11/24/1999
12/01/1999
12/08/1999
12/15/1999
12/22/1999

FIG. 16A

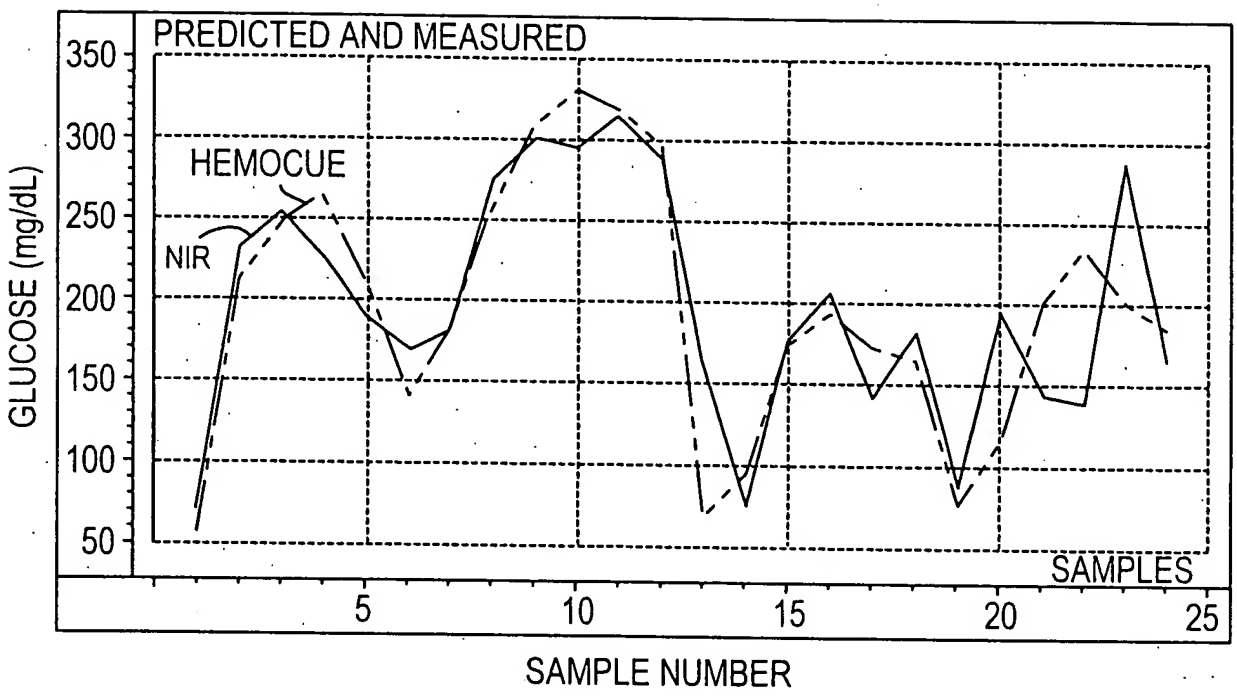

PREDICTED AND MEASURED
HEMOCUE
NIR
GLUCOSE (mg/dL)
350
300
250
200
150
100
50
SAMPLES
5
10
15
20
25
SAMPLE NUMBER

FIG. 16B

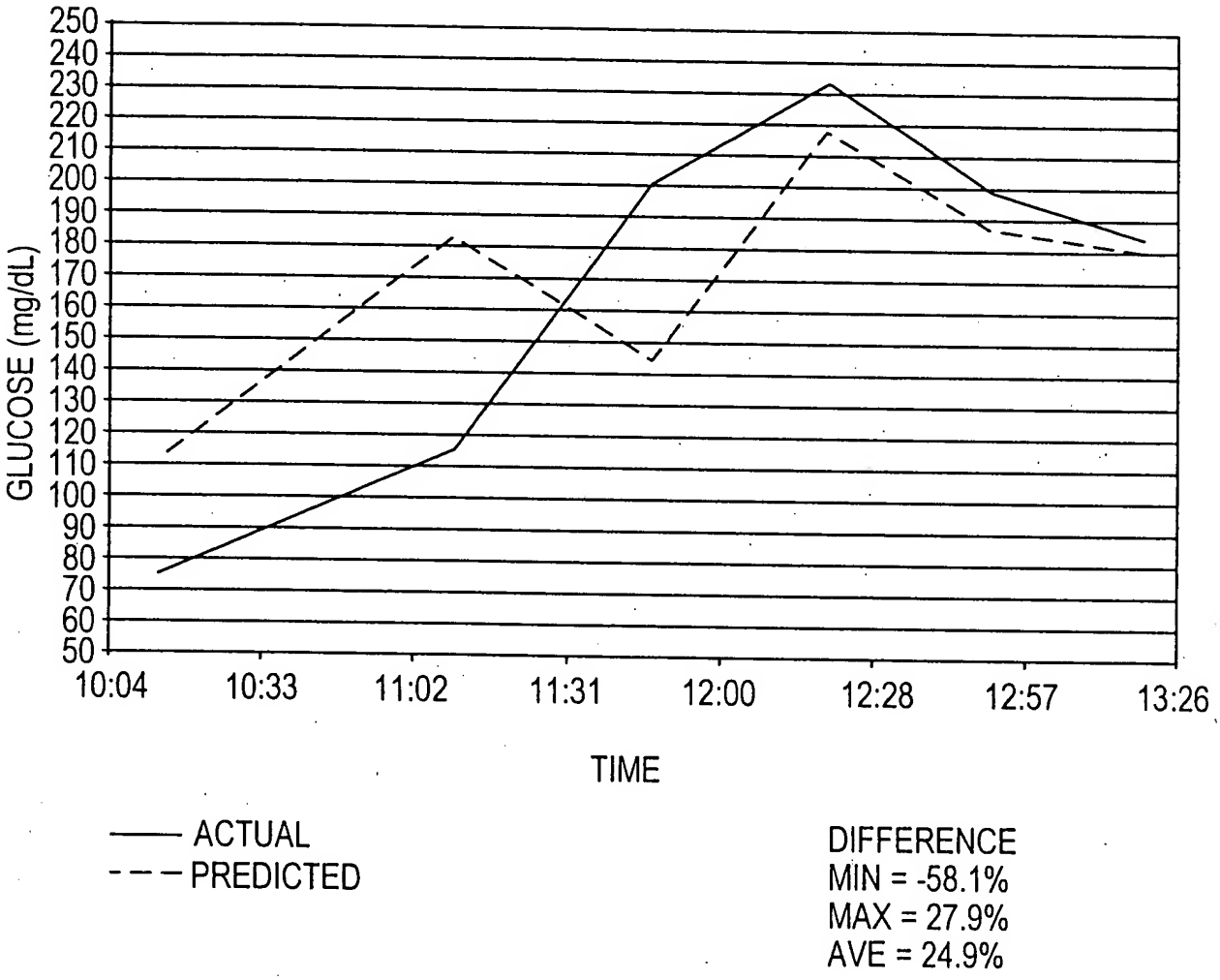

250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
GLUCOSE (mg/dL)
10:04
10:33
11:02
11:31
12:00
12:28
12:57
13:26
TIME
ACTUAL
PREDICTED
DIFFERENCE
MIN = -58.1%
MAX = 27.9%
AVE = 24.9%

FIG. 16C

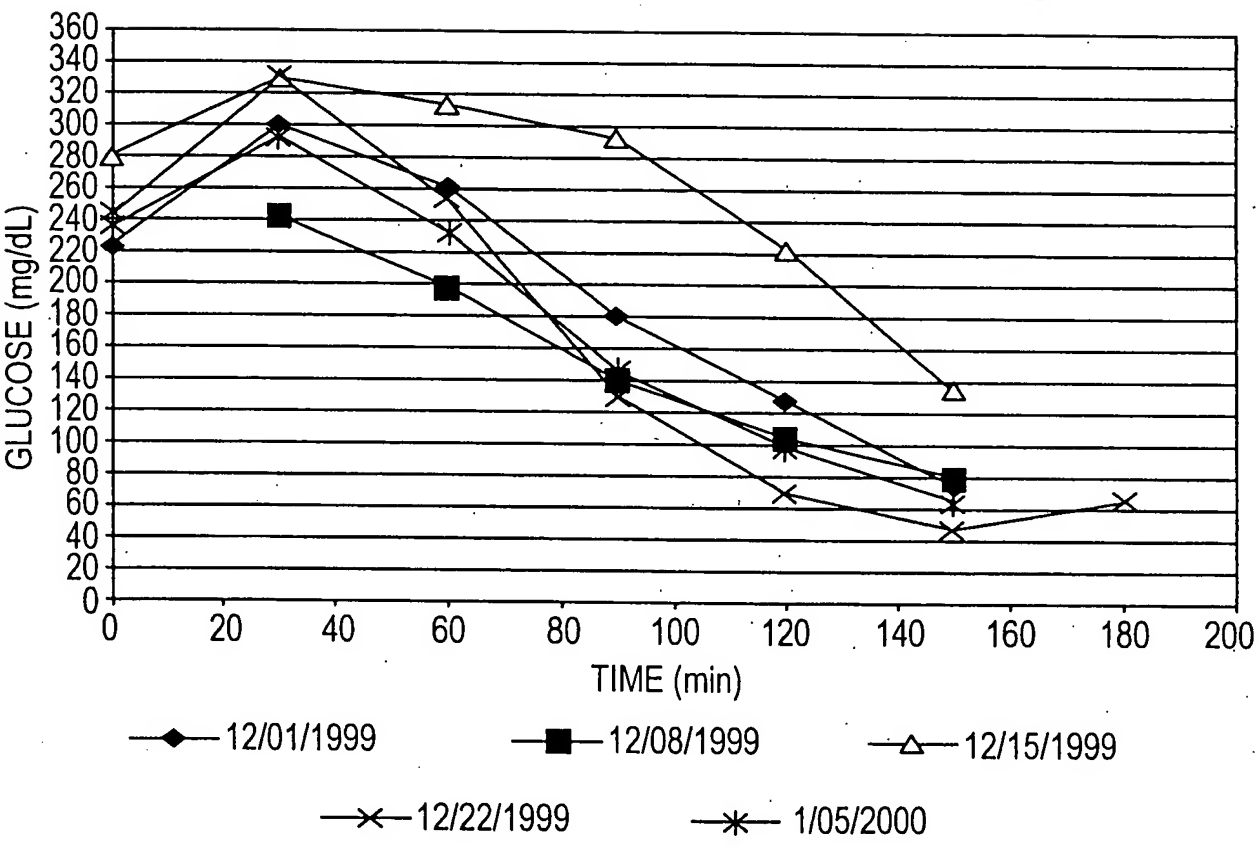

GLUCOSE (mg/dL)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
200
TIME (min)
12/01/1999
12/08/1999
12/15/1999
12/22/1999
1/05/2000

FIG. 17A

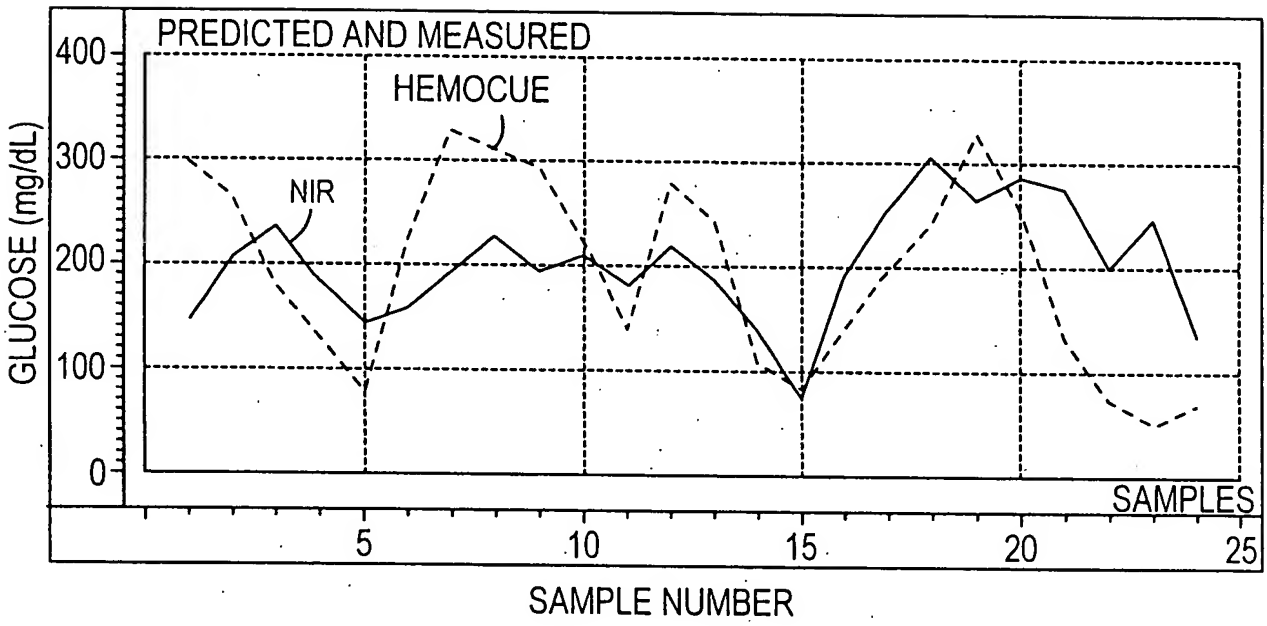

PREDICTED AND MEASURED
HEMOCUE
NIR
GLUCOSE (mg/dL)
400
300
200
100
0
SAMPLES
5
10
15
20
25
SAMPLE NUMBER

FIG. 17B

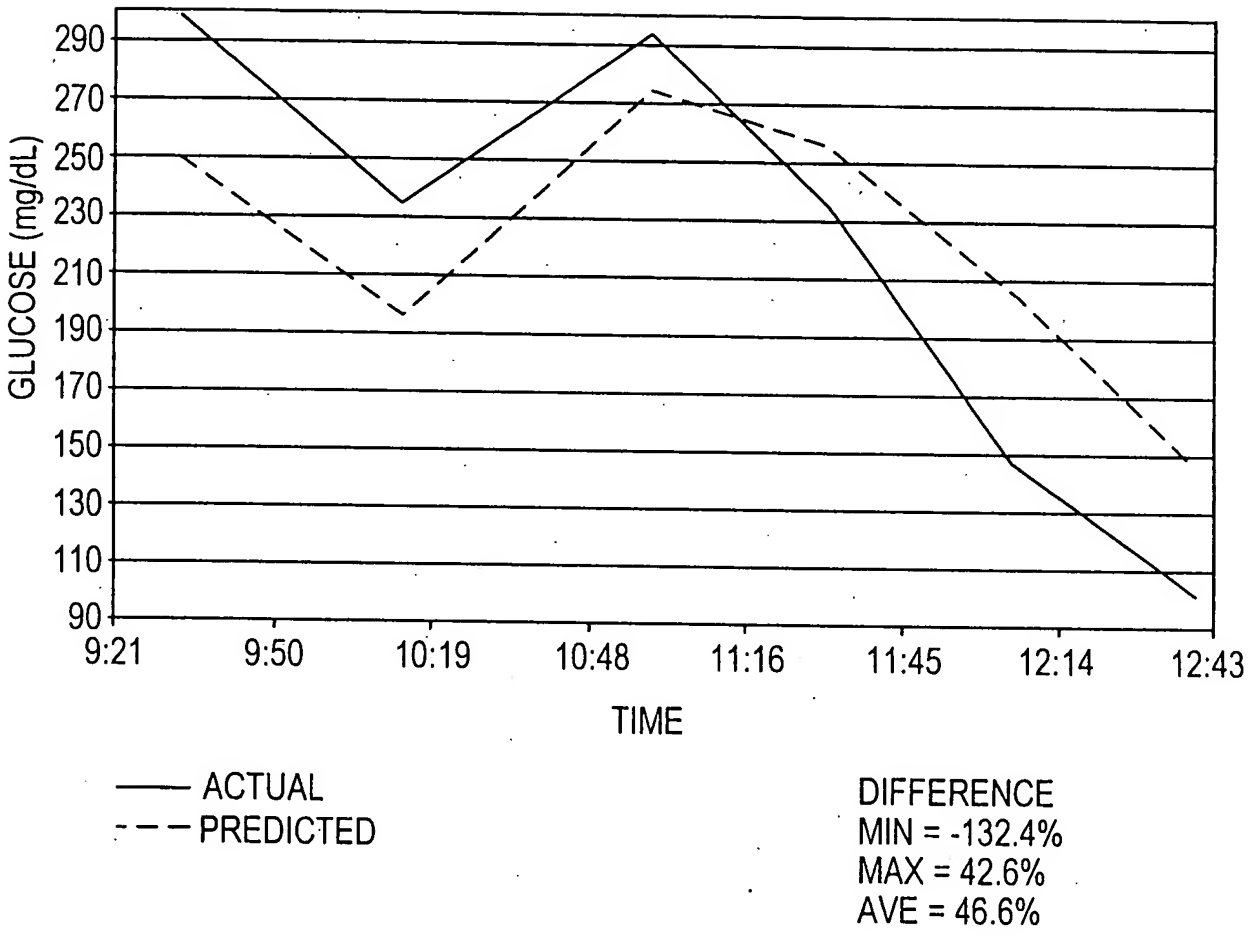

290
270
250
230
210
190
170
150
130
110
90
GLUCOSE (mg/dL)
9:21
9:50
10:19
10:48
11:16
11:45
12:14
12:43
TIME
ACTUAL
PREDICTED
DIFFERENCE
MIN = -132.4%
MAX = 42.6%
AVE = 46.6%

FIG. 17C

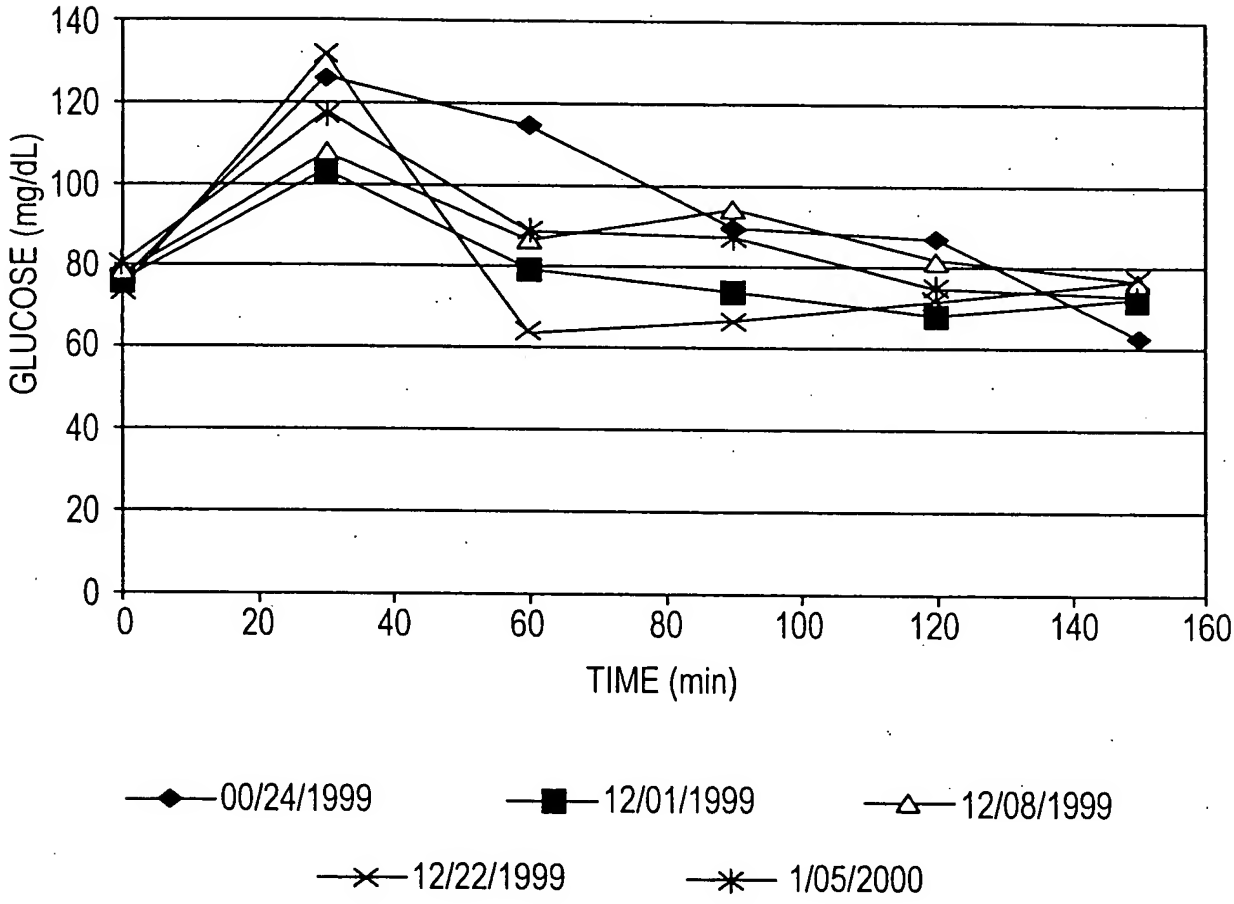

140
120
100
80
60
40
20
0
GLUCOSE (mg/dL)
0
20
40
60
80
100
120
140
160
TIME (min)
00/24/1999
12/01/1999
12/08/1999
12/22/1999
1/05/2000

FIG. 18A

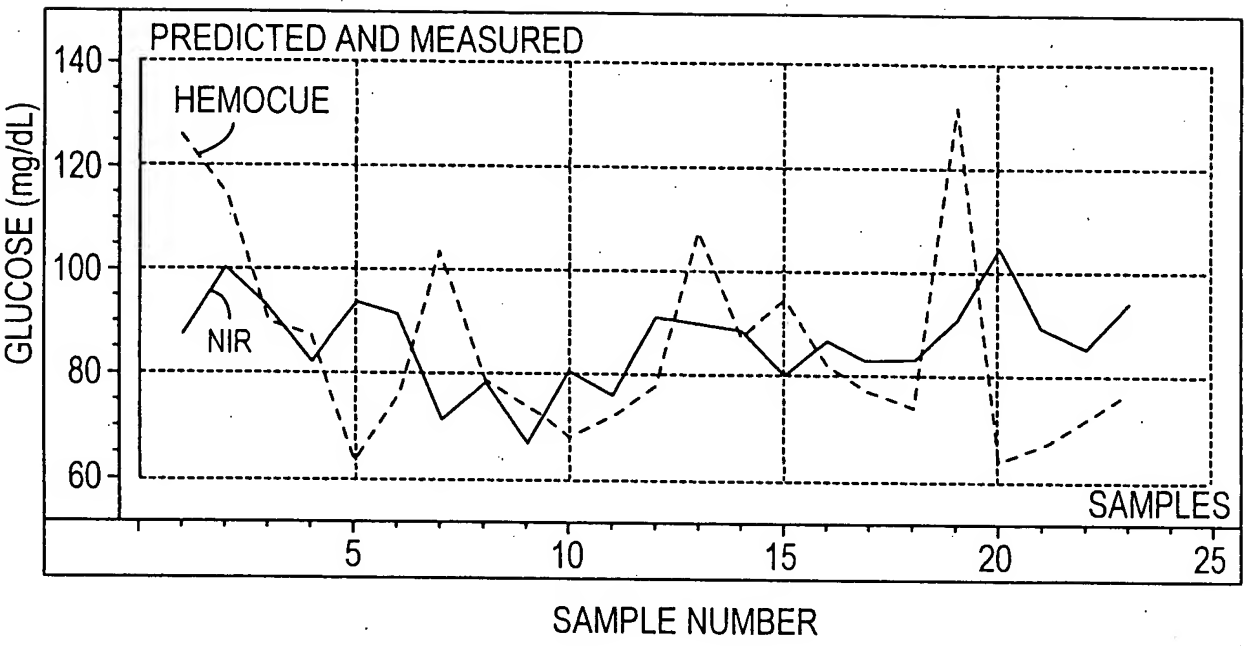

PREDICTED AND MEASURED
HEMOCUE
NIR
GLUCOSE (mg/dL)
140
120
100
80
60
SAMPLES
5
10
15
20
25
SAMPLE NUMBER

*FIG. 18B*

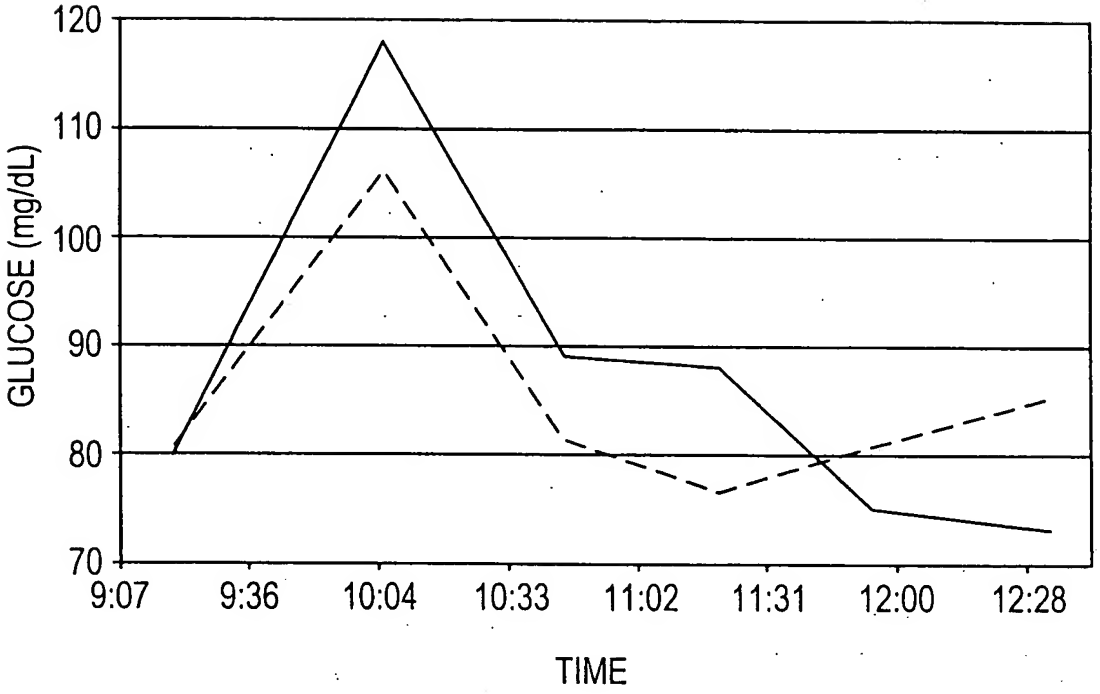

120
110
100
90
80
70
GLUCOSE (mg/dL)
9:07
9:36
10:04
10:33
11:02
11:31
12:00
12:28
TIME
ACTUAL
PREDICTED
DIFFERENCE
MIN = -16.7%
MAX = 13.3%
AVE = 9.5%

*FIG. 18C*

DIFFUSE REFLECTANCE TRANSFORMS

SECOND TRANSFORM:

| 1ST TRANSFORM | NULLS | BASECORR | NORMALIZ | FIRSTDRV | SECNDDRV | MULTSCAT | KUBLMUNK | SMOOTHNG | RATIO | MEANCNTR | SGDERIV1 | SGDERIV2 | ABS2REFL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NULLS | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| BASECORR | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| NORMALIZ | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| FIRSTDRV | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| SECNDDRV | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| MULTSCAT | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |
| KUBLMUNK | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| SMOOTHNG | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| RATIO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEANCNTR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| ABS2REFL | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |

*FIG. 19A*

DIFFUSE REFLECTANCE RATIOS

DENOMINATOR TRANSFORM

| NUMERATOR TRANSFORM | NULLS | BASECORR | NORMALIZ | FIRSTDRV | SECNDDRV | MULTSCAT | KUBLMUNK | SMOOTHNG | RATIO | MEANCNTR | SGDERIV1 | SGDERIV2 | ABS2REFL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NULLS | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BASECORR | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NORMALIZ | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FIRSTDRV | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SECNDDRV | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MULTSCAT | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KUBLMUNK | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SMOOTHNG | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| RATIO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEANCNTR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| SGDERIV1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| SGDERIV2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ABS2REFL | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

FIG. 19B

DIFFUSE TRANSMITTANCE TRANSFORMS

SECOND TRANSFORM:

| 1ST TRANSFORM | NULLS | BASECORR | NORMALIZ | FIRSTDRV | SECNDDRV | MULTSCAT | KUBLMUNK | SMOOTHNG | RATIO | MEANCNTR | SGDERIV1 | SGDERIV2 | ABS2REFL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NULLS | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| BASECORR | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| NORMALIZ | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| FIRSTDRV | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| SECNDDRV | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| MULTSCAT | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| KUBLMUNK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SMOOTHNG | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| RATIO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEANCNTR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| ABS2REFL | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |

FIG. 20A

DIFFUSE TRANSMITTANCE RATIOS

DENOMINATOR TRANSFORM

| NUMERATOR TRANSFORM | NULLS | BASECORR | NORMALIZ | FIRSTDRV | SECNDDRV | MULTSCAT | KUBLMUNK | SMOOTHNG | RATIO | MEANCNTR | SGDERIV1 | SGDERIV2 | ABS2REFL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NULLS | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BASECORR | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NORMALIZ | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FIRSTDRV | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SECNDDRV | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MULTSCAT | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KUBLMUNK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SMOOTHNG | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| RATIO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEANCNTR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| SGDERIV2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| ABS2REFL | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

*FIG. 20B*

CLEAR TRANSMITTANCE TRANSFORMS

SECOND TRANSFORM:

| 1ST TRANSFORM | NULLS | BASECORR | NORMALIZ | FIRSTDRV | SECNDDRV | MULTSCAT | KUBLMUNK | SMOOTHNG | RATIO | MEANCNTR | SGDERIV1 | SGDERIV2 | ABS2REFL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NULLS | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| BASECORR | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| NORMALIZ | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| FIRSTDRV | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| SECNDDRV | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| MULTSCAT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KUBLMUNK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SMOOTHNG | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| RATIO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEANCNTR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| ABS2REFL | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |

FIG. 21A

CLEAR TRANSMITTANCE RATIOS

DENOMINATOR TRANSFORM

| NUMERATOR TRANSFORM | NULLS | BASECORR | NORMALIZ | FIRSTDRV | SECNDDRV | MULTSCAT | KUBLMUNK | SMOOTHNG | RATIO | MEANCNTR | SGDERIV1 | SGDERIV2 | ABS2REFL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NULLS | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BASECORR | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NORMALIZ | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FIRSTDRV | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SECNDDRV | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MULTSCAT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KUBLMUNK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SMOOTHNG | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| RATIO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEANCNTR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGDERIV1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| SGDERIV2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| ABS2REFL | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

FIG. 21B

DERIVATIVE SPACING:

SPACING = INT (n ^ 1.4), n = 1 : 10

= 1, 2, 4, 6, 9, 12, 15, 18, 21, 25

*FIG. 22*

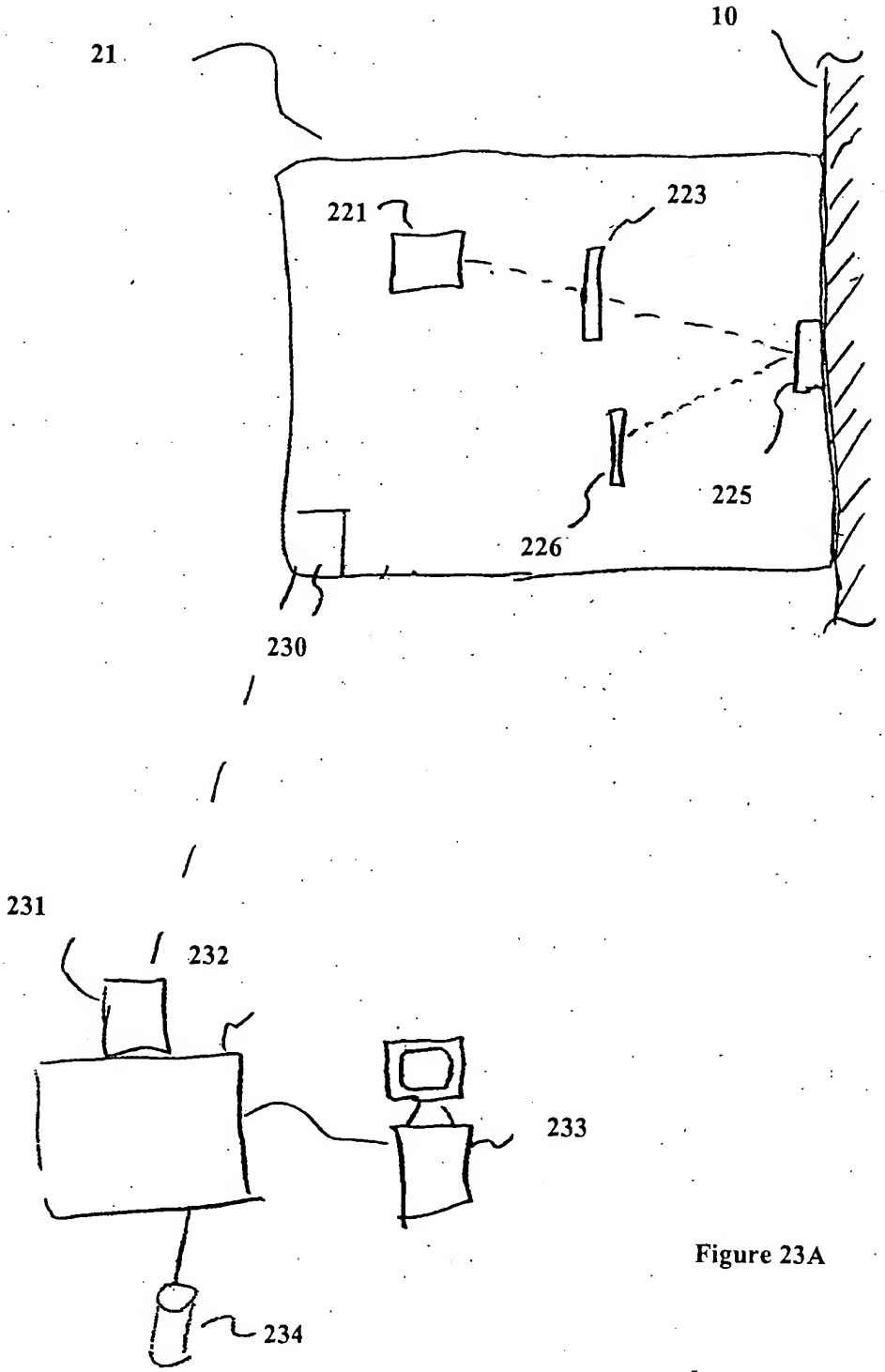



Figure 23A

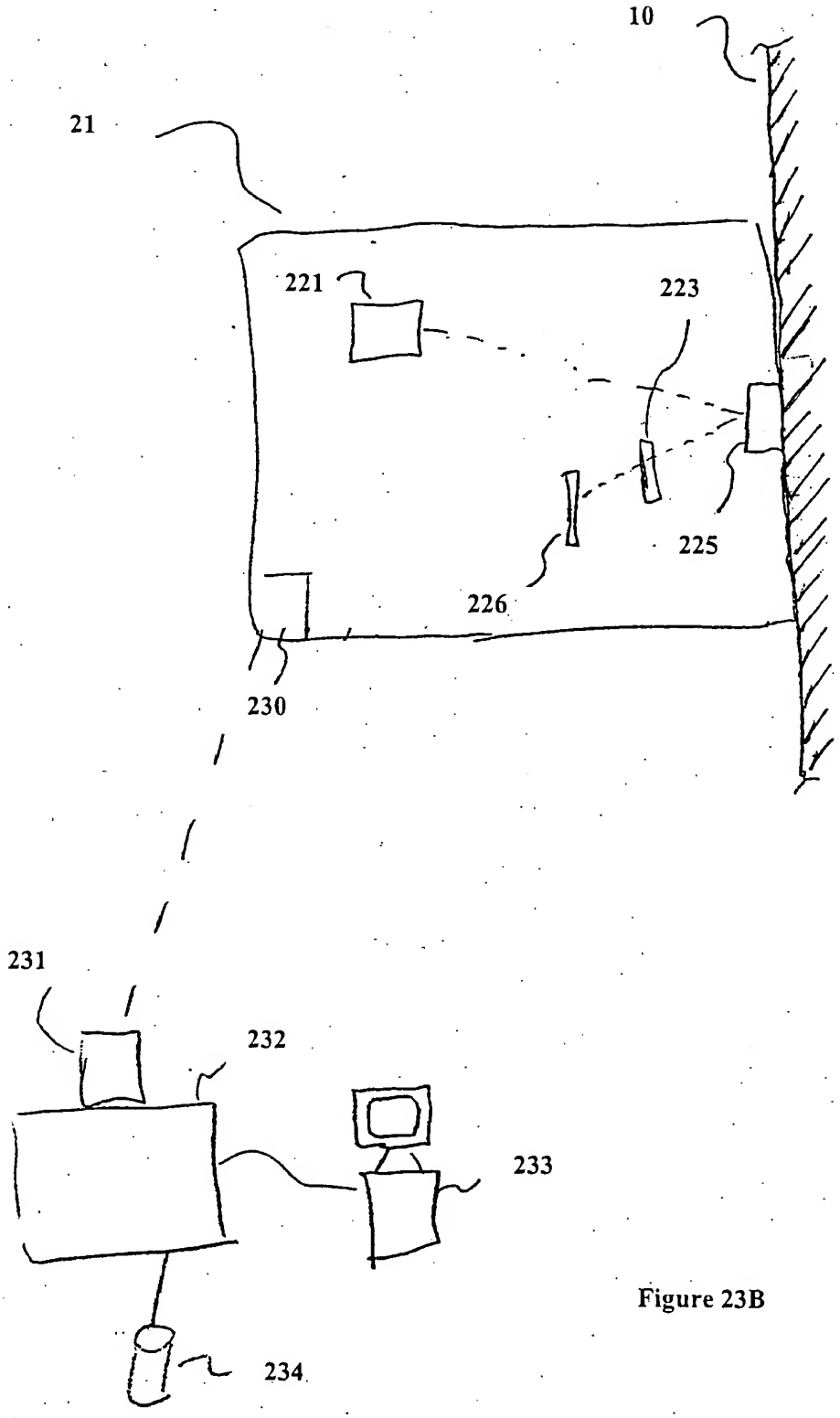



Figure 23B

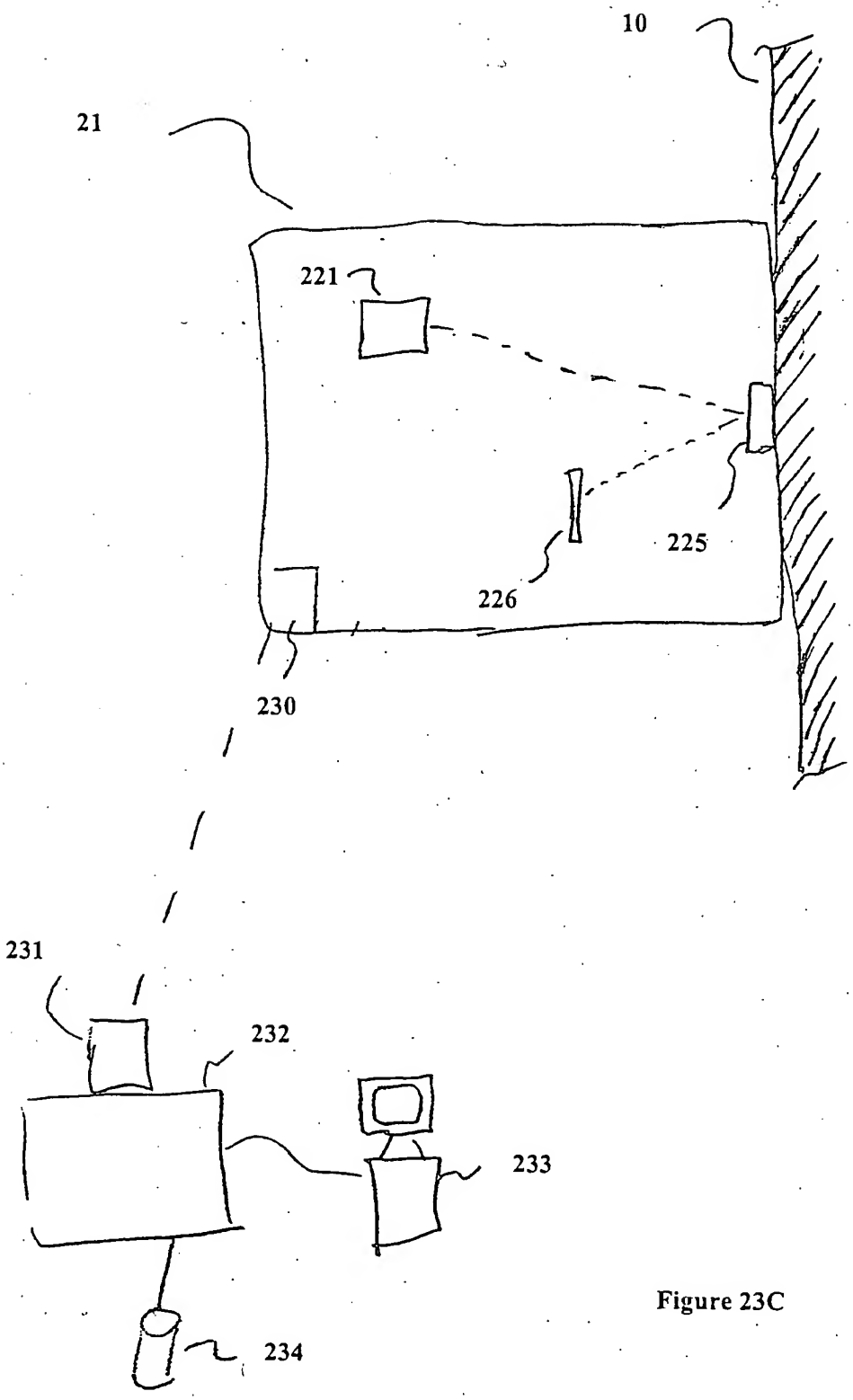



Figure 23C

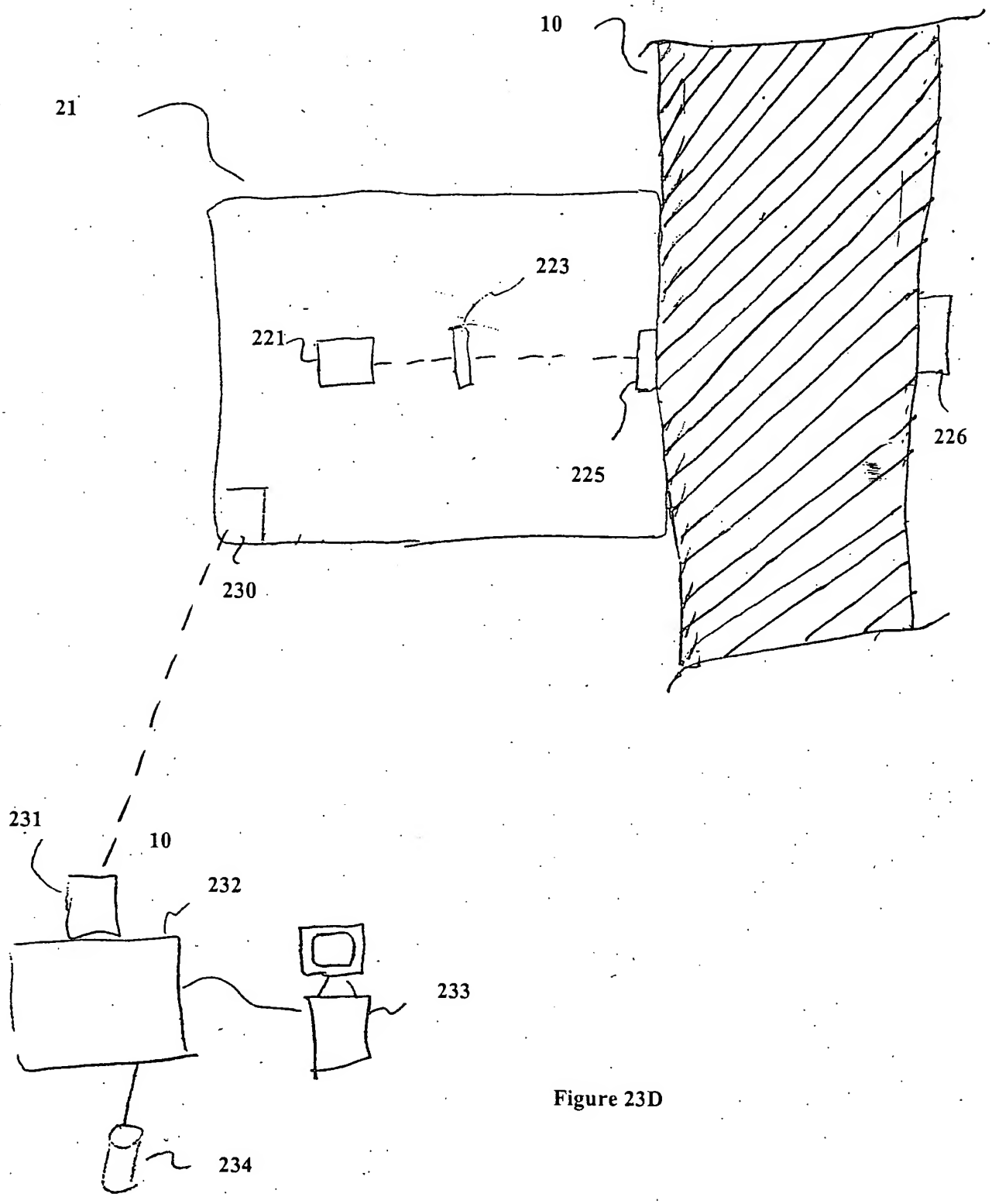



Figure 23D

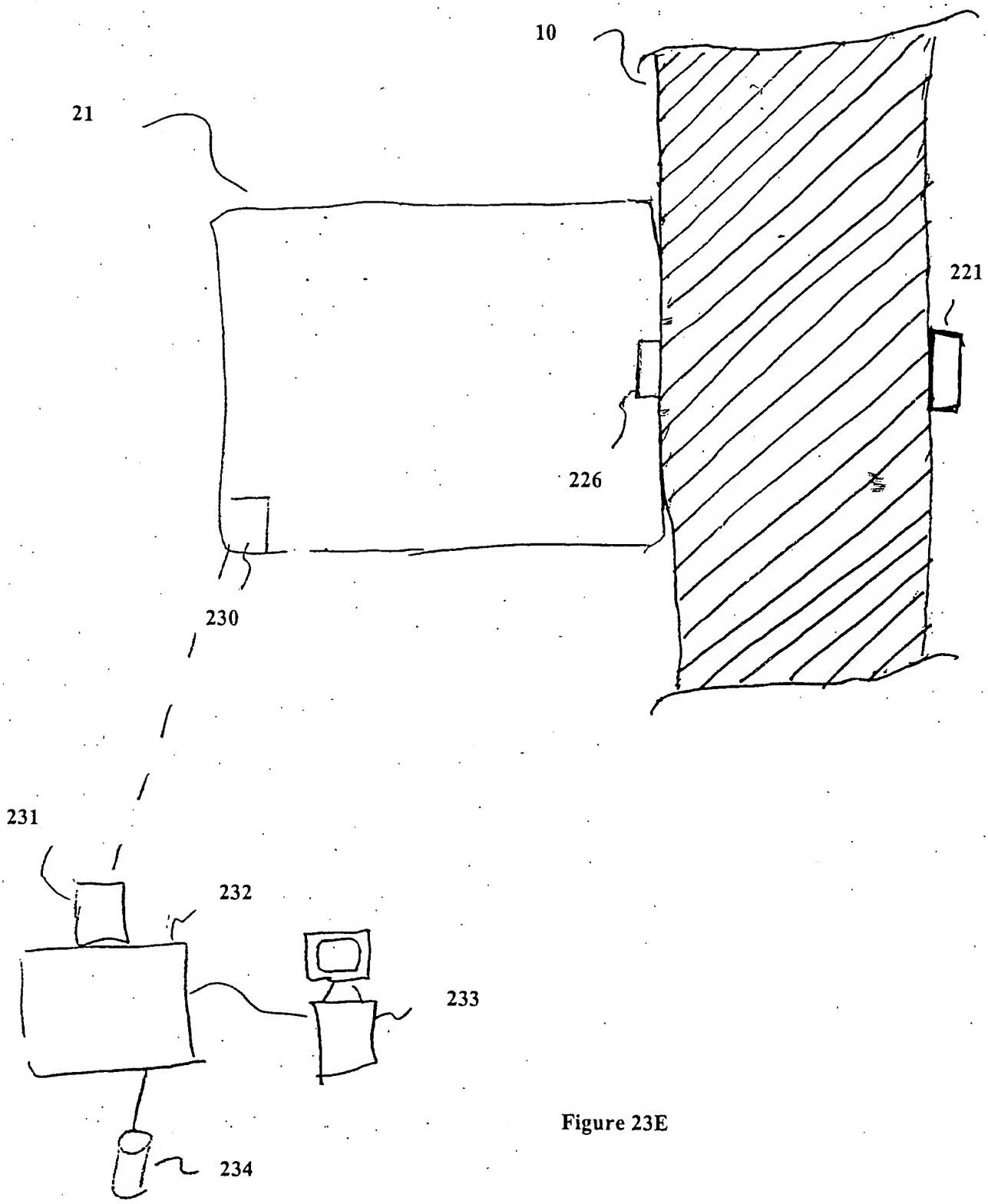



Figure 23E

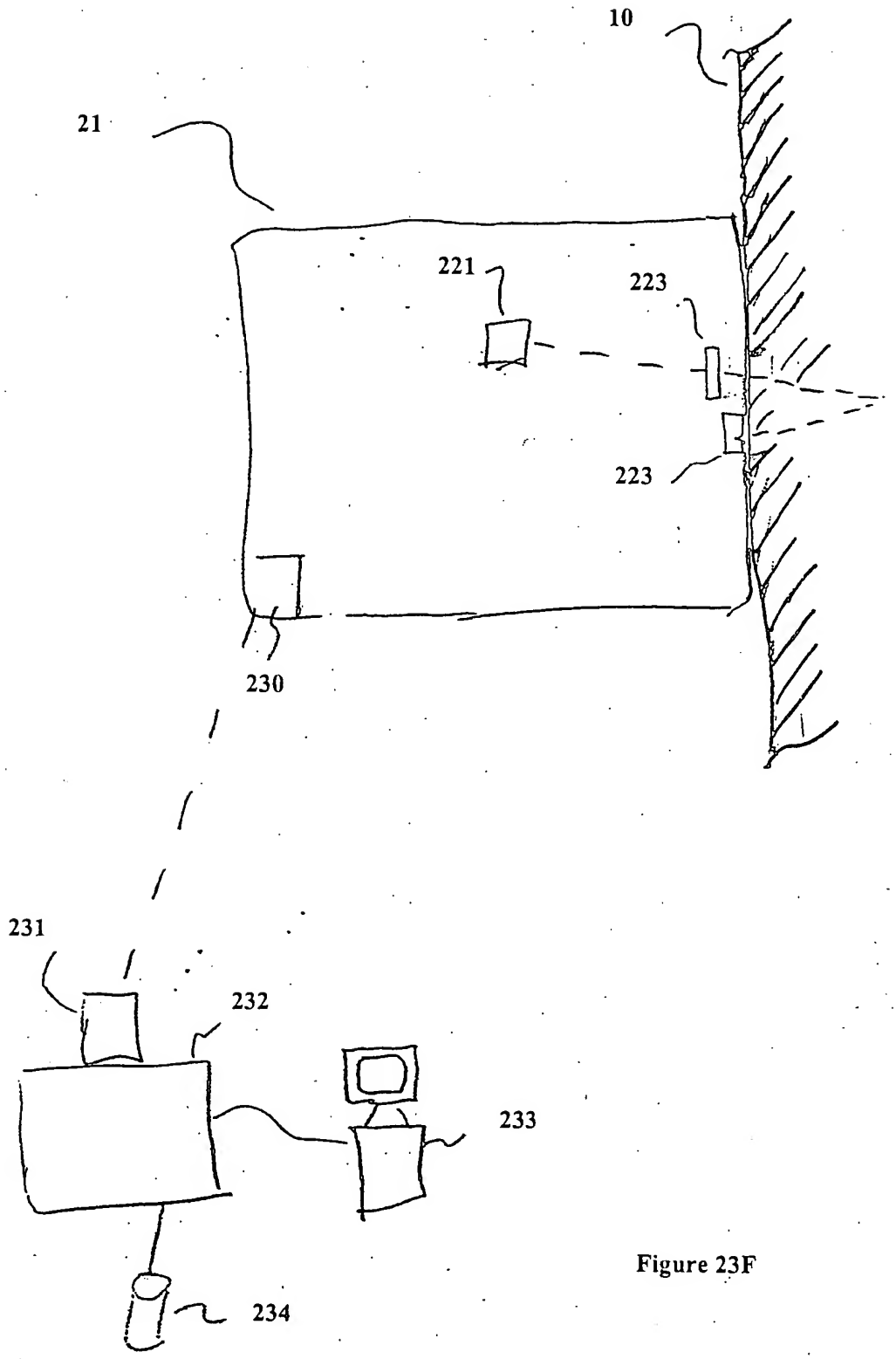



Figure 23F

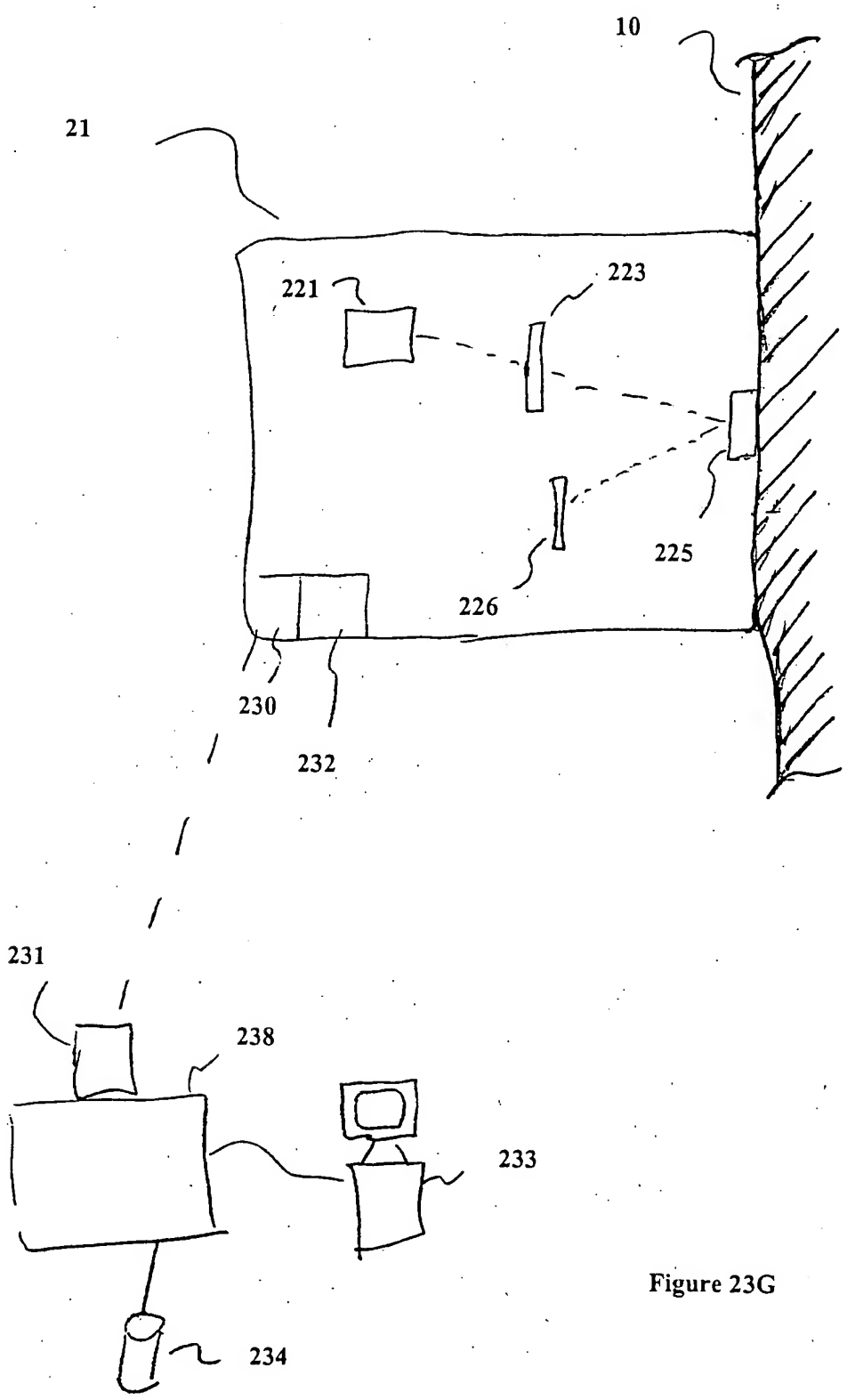



Figure 23G

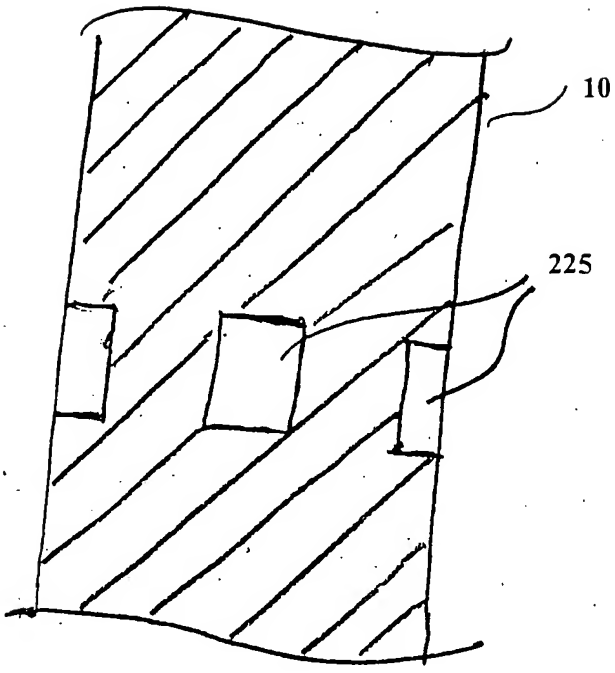



Figure 24

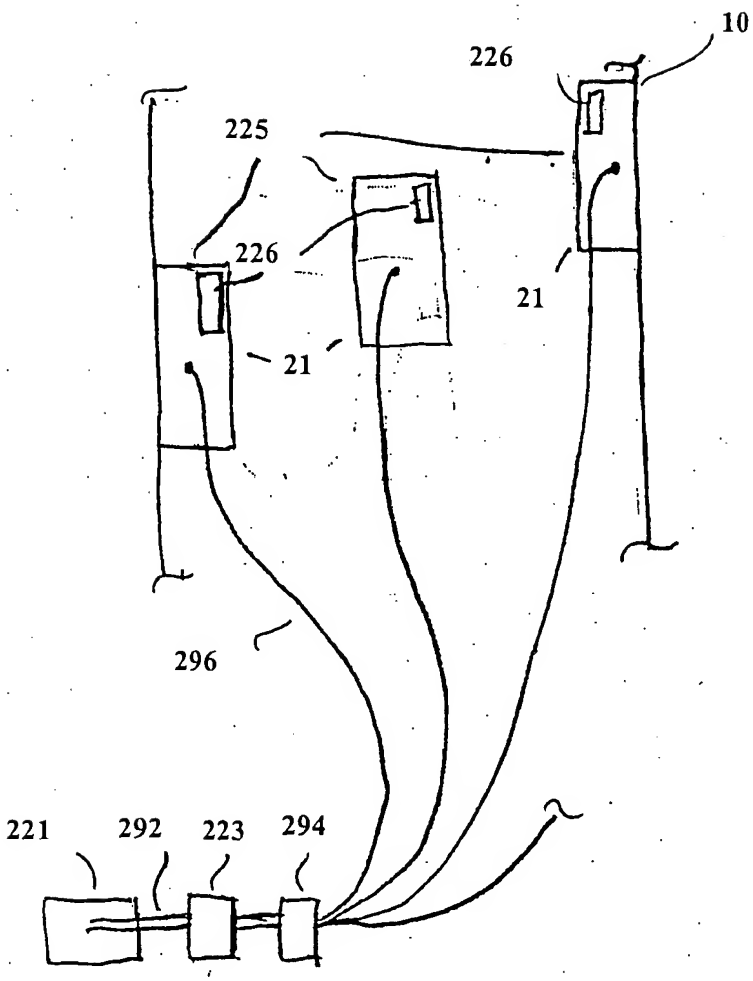



Figure 25

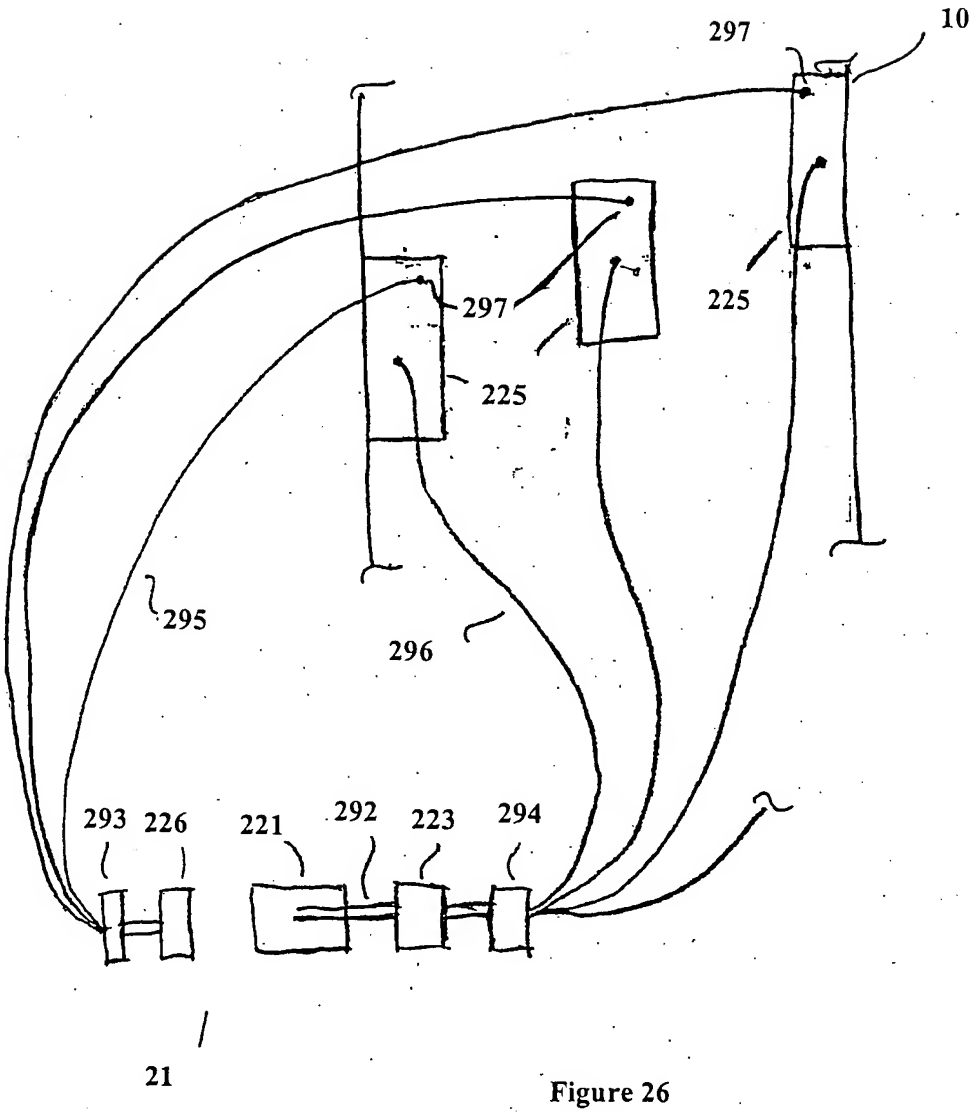



Figure 26

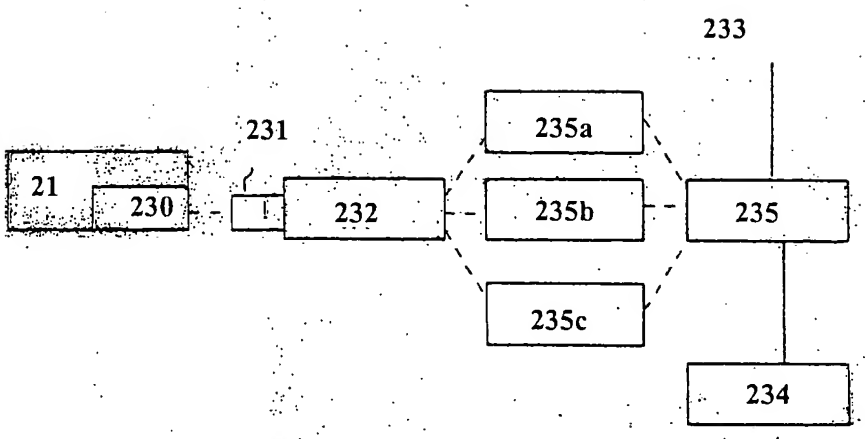



Figure 27

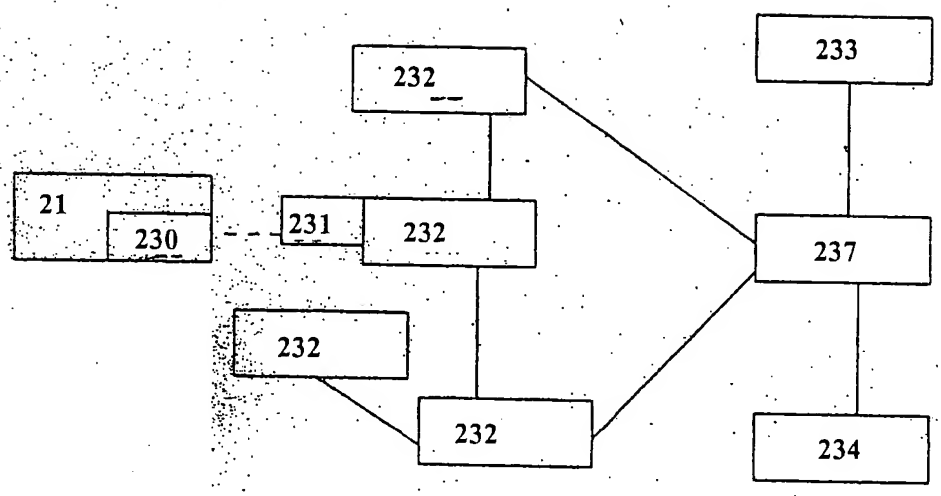



Figure 28

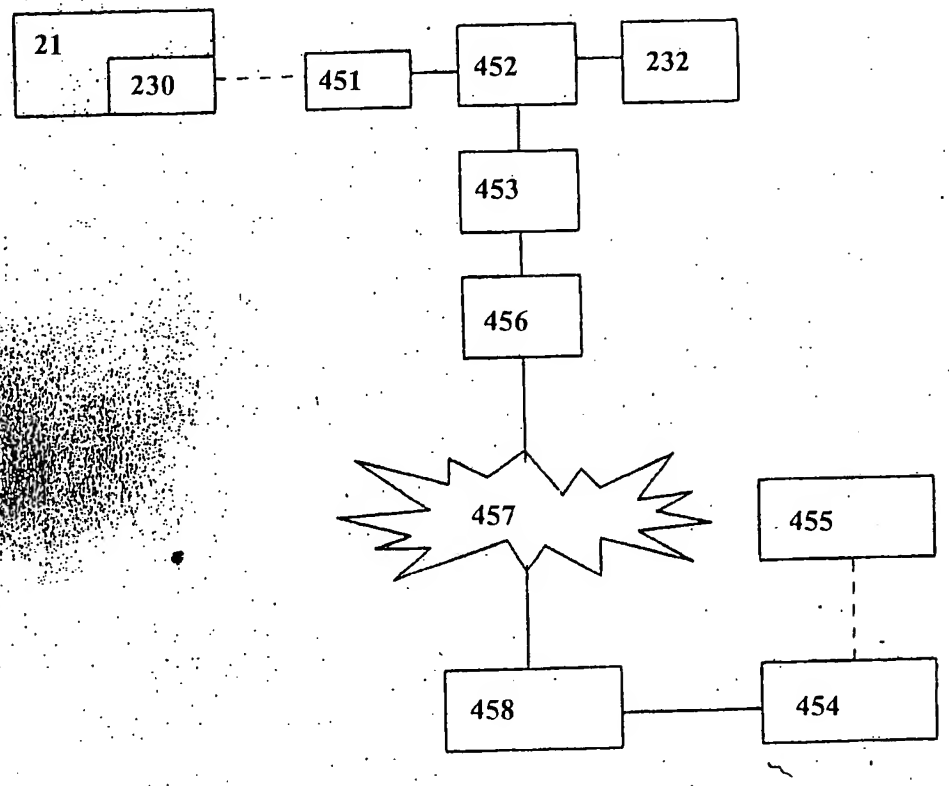



Figure 29

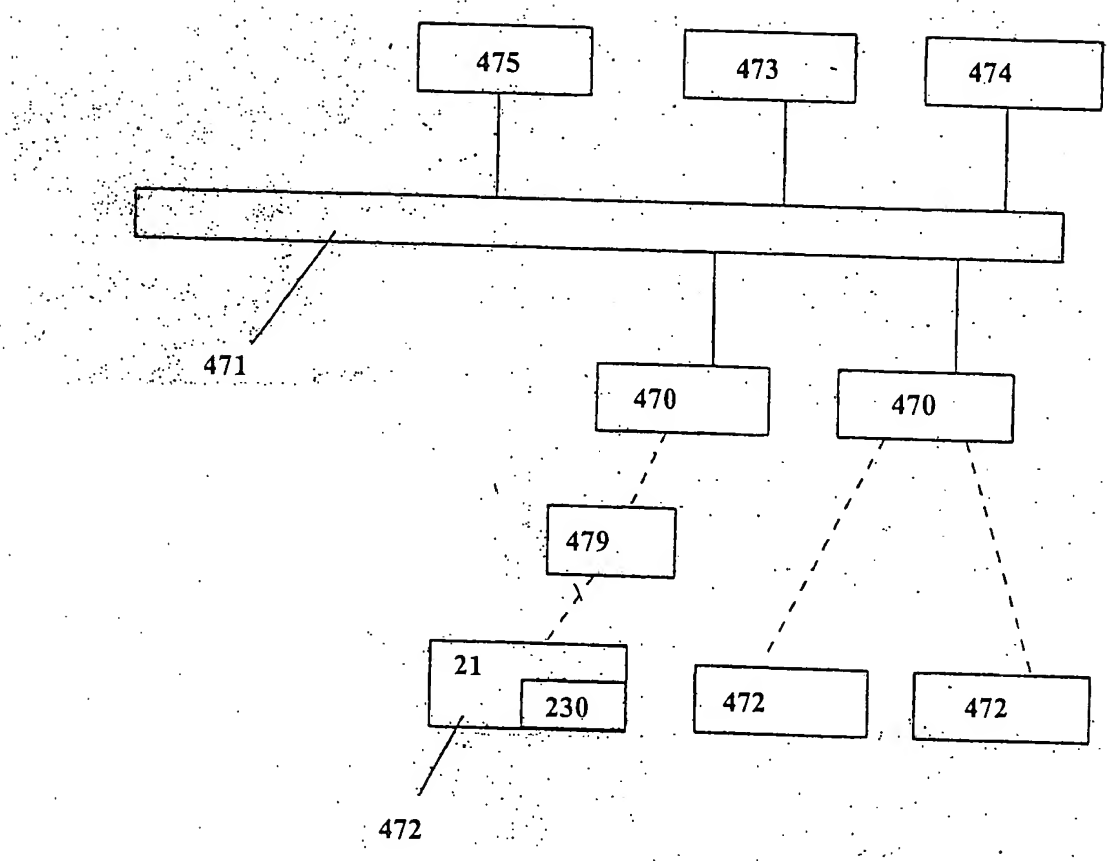



Figure 30

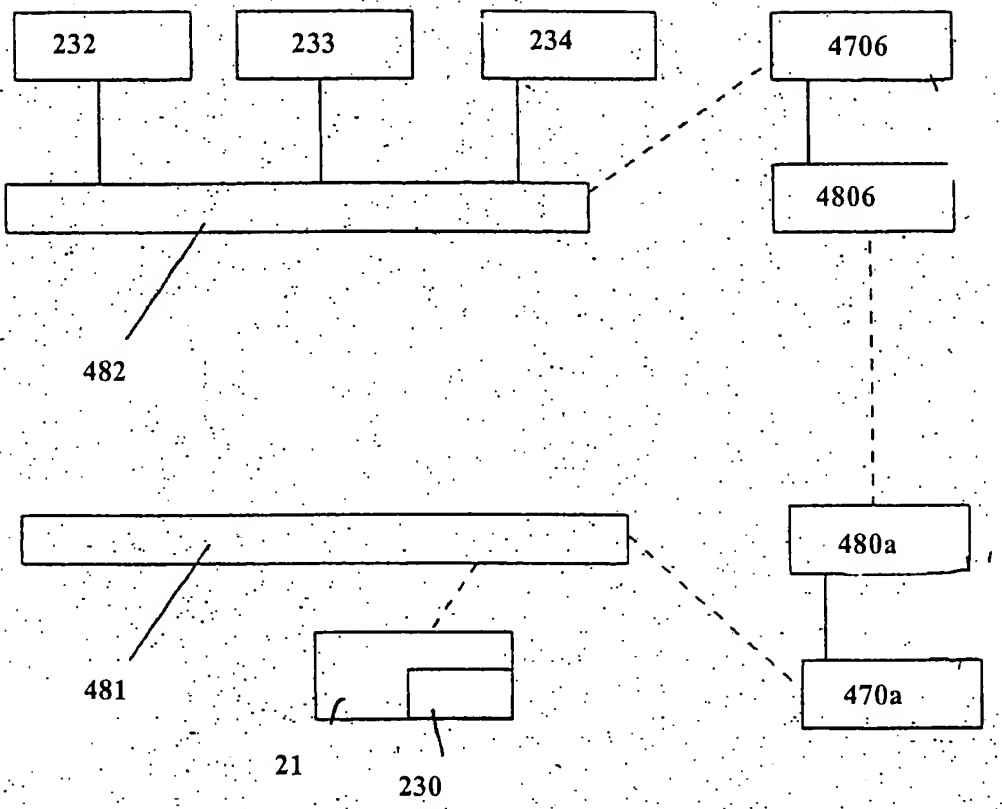



Figure 31

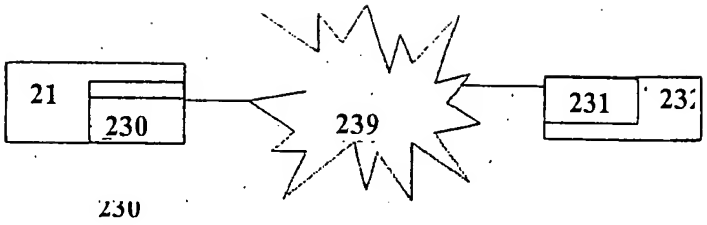



Figure 32

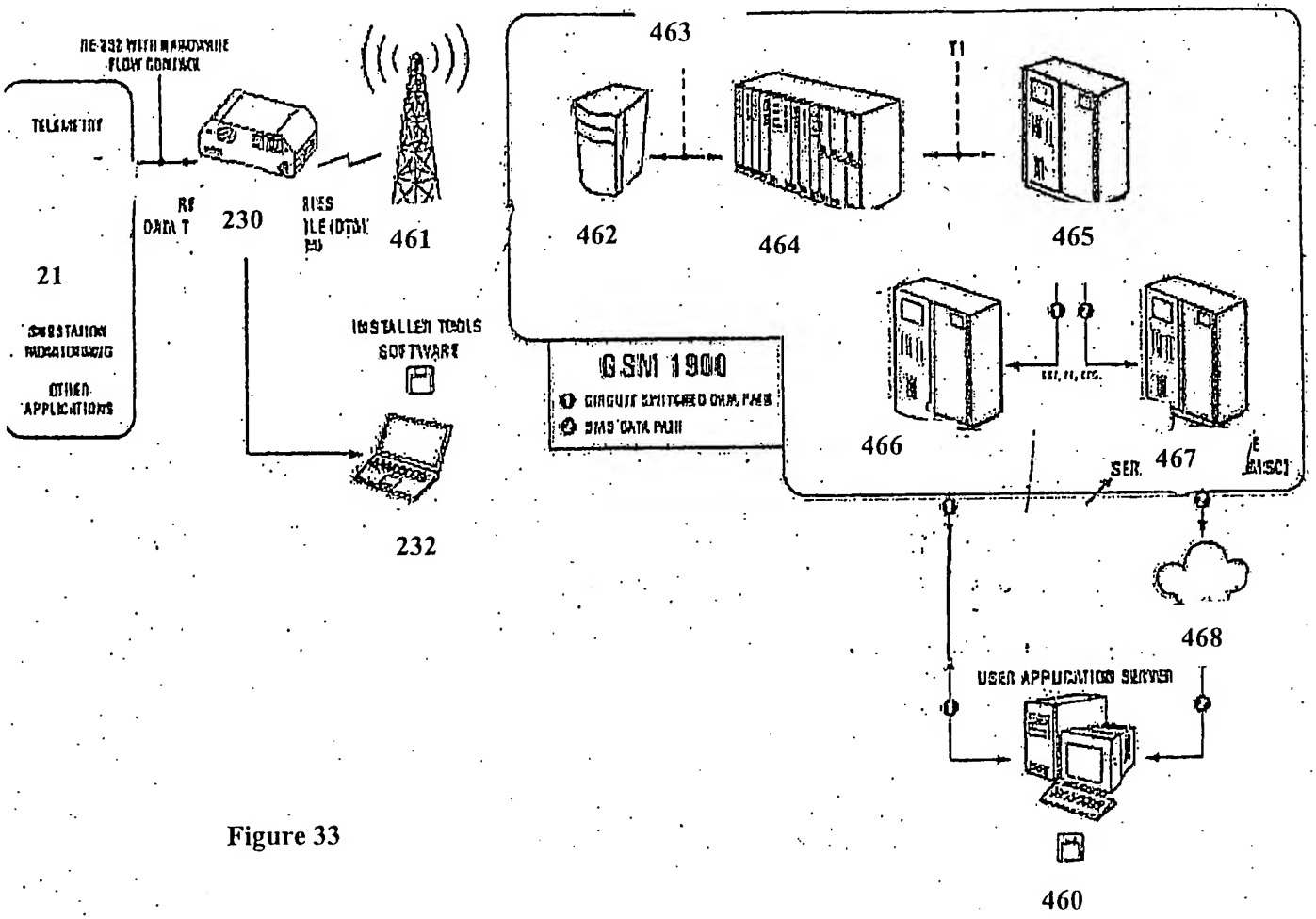



Figure 33

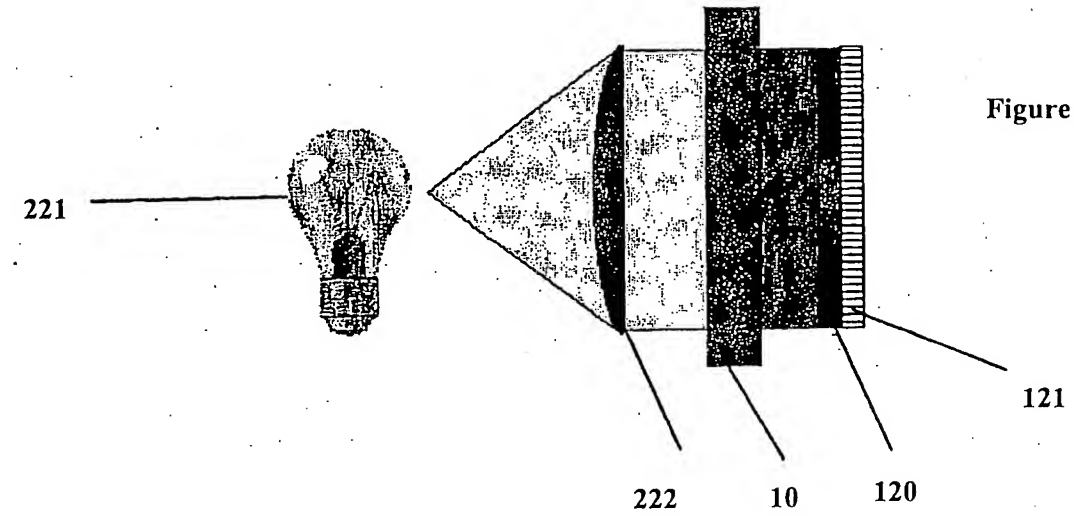



Figure 34A

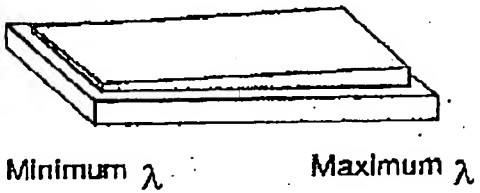



Figure 34B

Fig. 35A

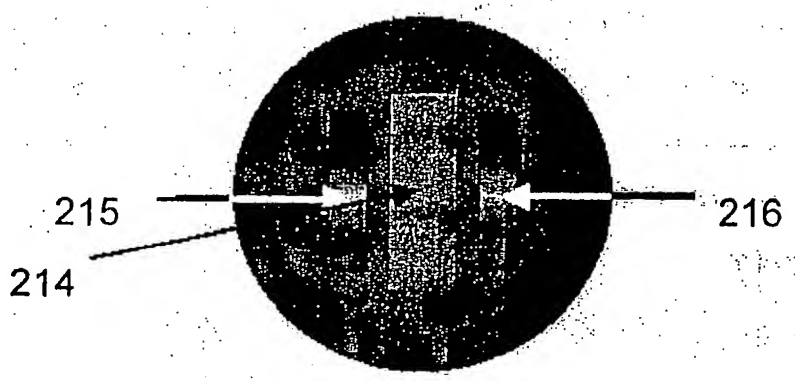



Fig. 35B

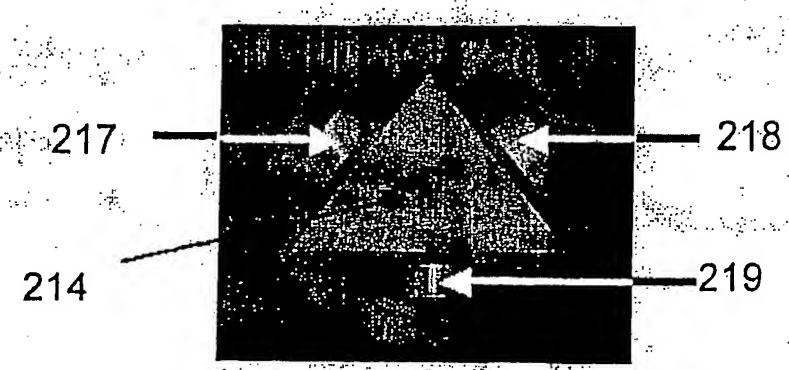


Figure 36

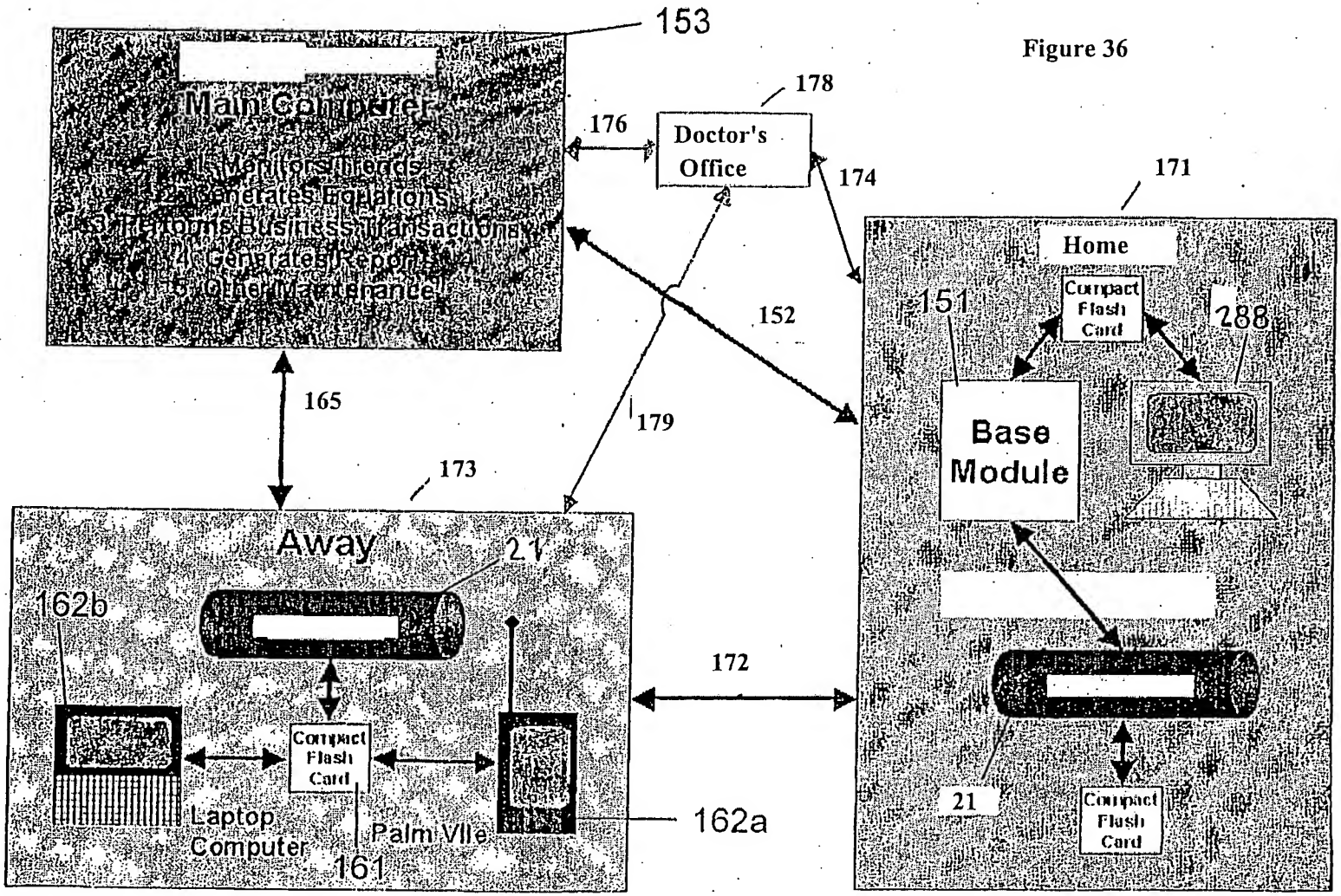
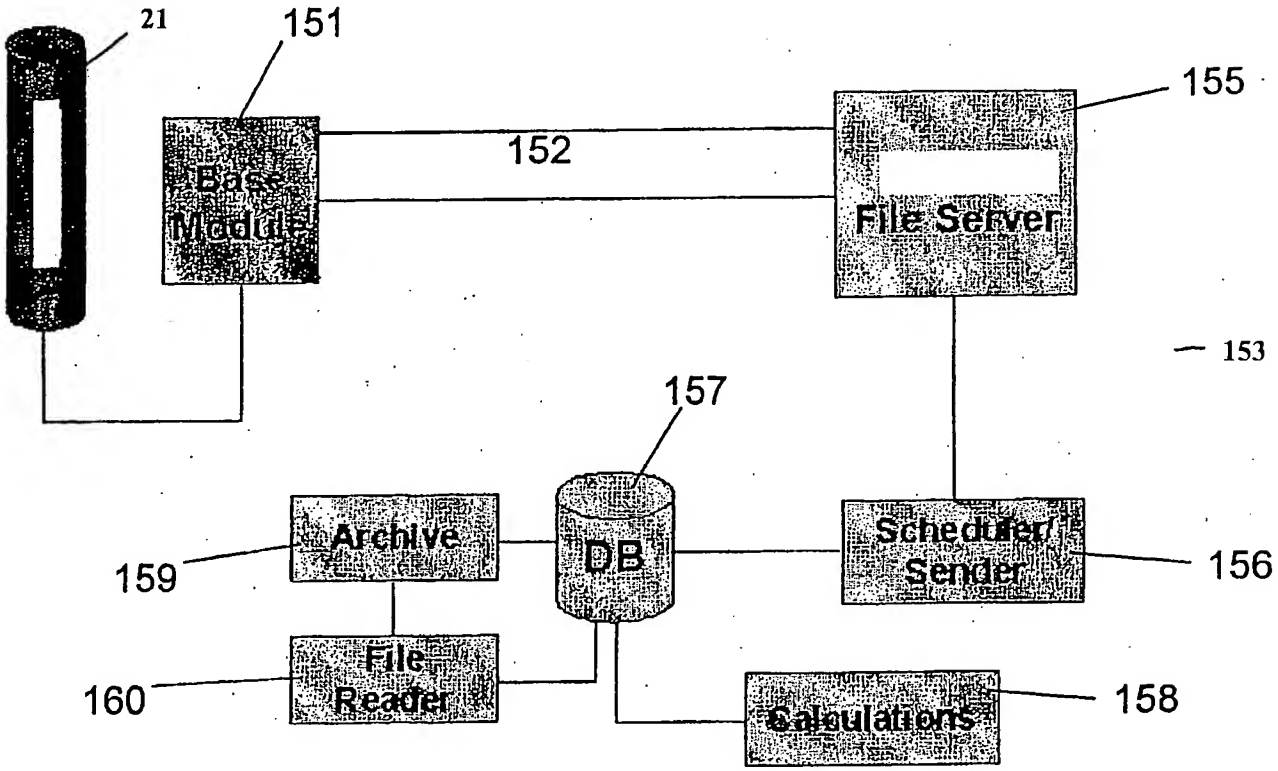

153
Main Computer
1. Monitors Needs
2. Generates Equations
3. Performs Business Transactions
4. Generates Reports
5. Other Maintenance
178
176
Doctor's Office
174
171
Home
152
151
Compact Flash Card
288
165
179
Base Module
173
Away
21
162b
172
Compact Flash Card
Laptop Computer
Palm VIIe
161
162a
21
Compact Flash Card

Figure 37


21
151
Base Module
152
155
File Server
153
157
DB
Archive
159
Scheduler / Sender
156
File Reader
160
Calculations
158

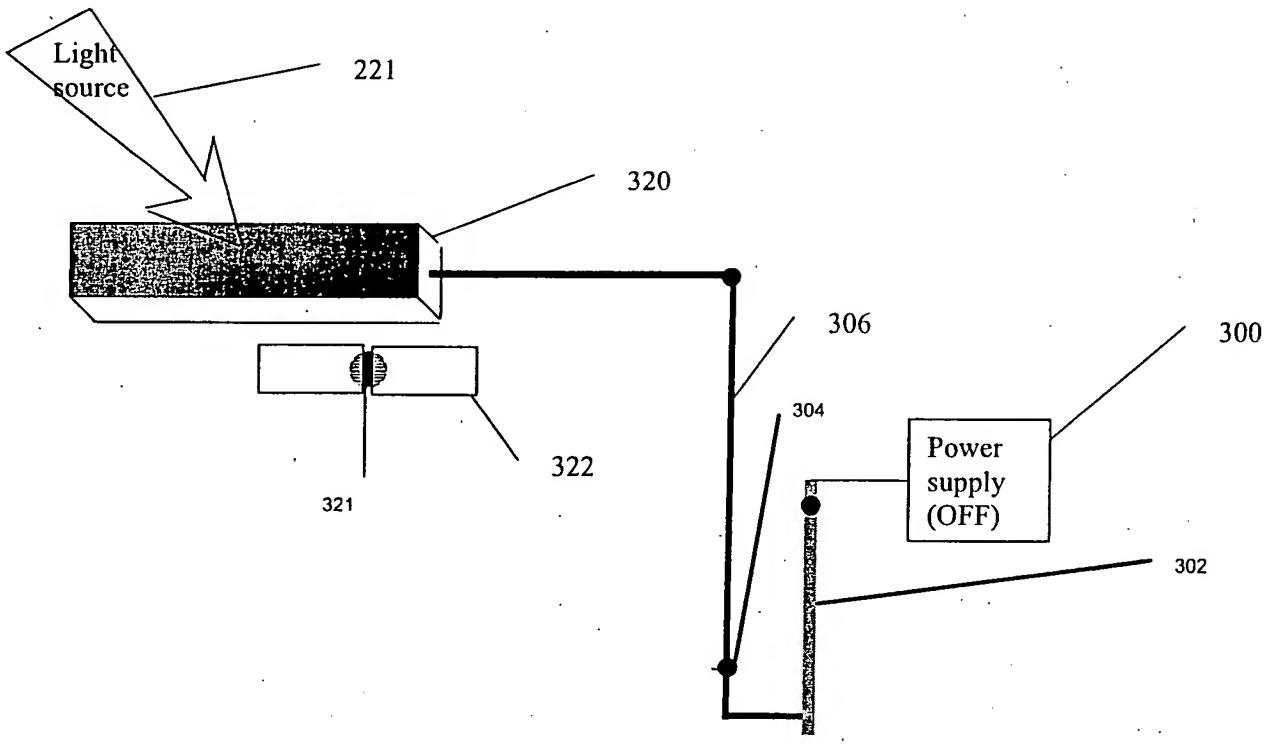



Figure 38a

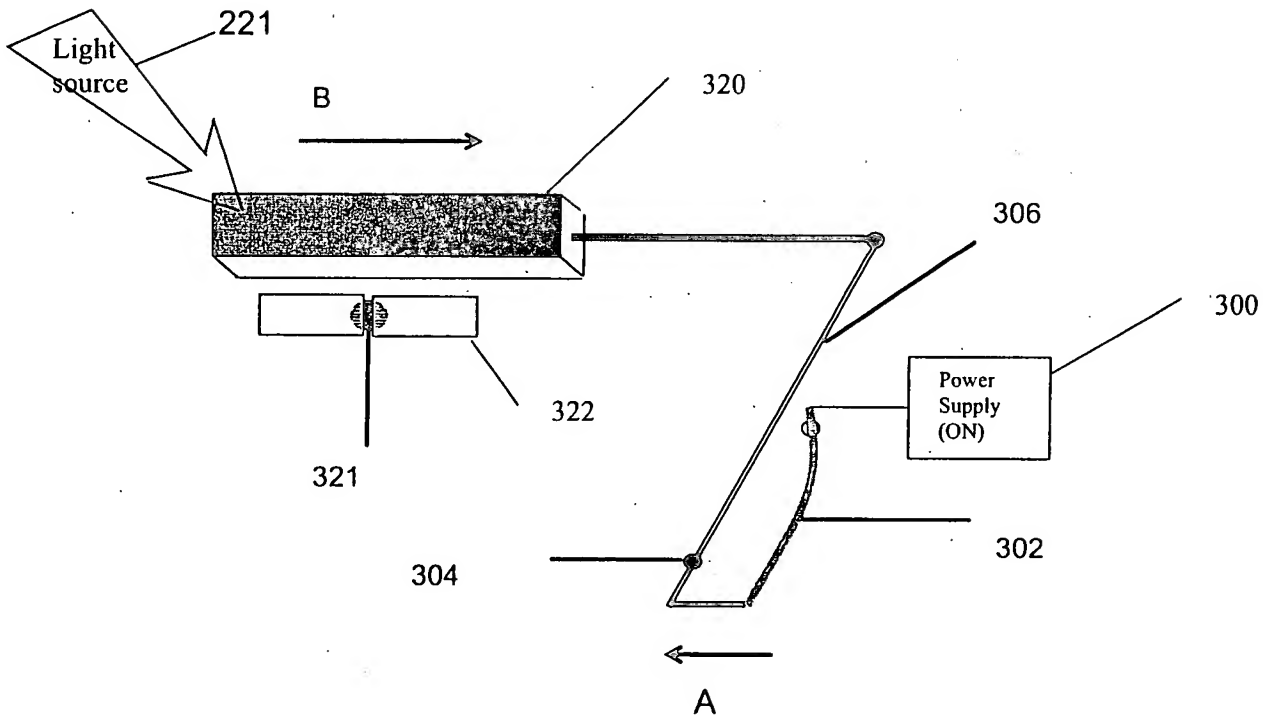

Light source
221
B
320
306
300
Power Supply (ON)
322
321
304
302
A

Figure 38B

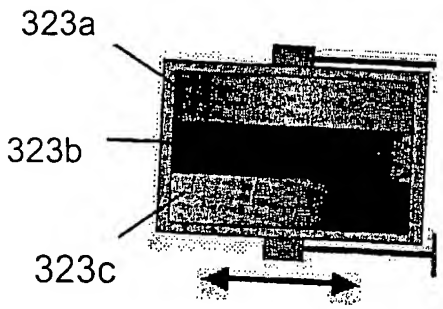



Figure 39A

324b

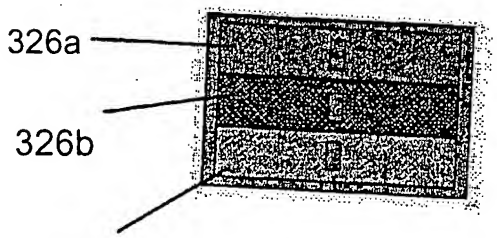



Figure 39B

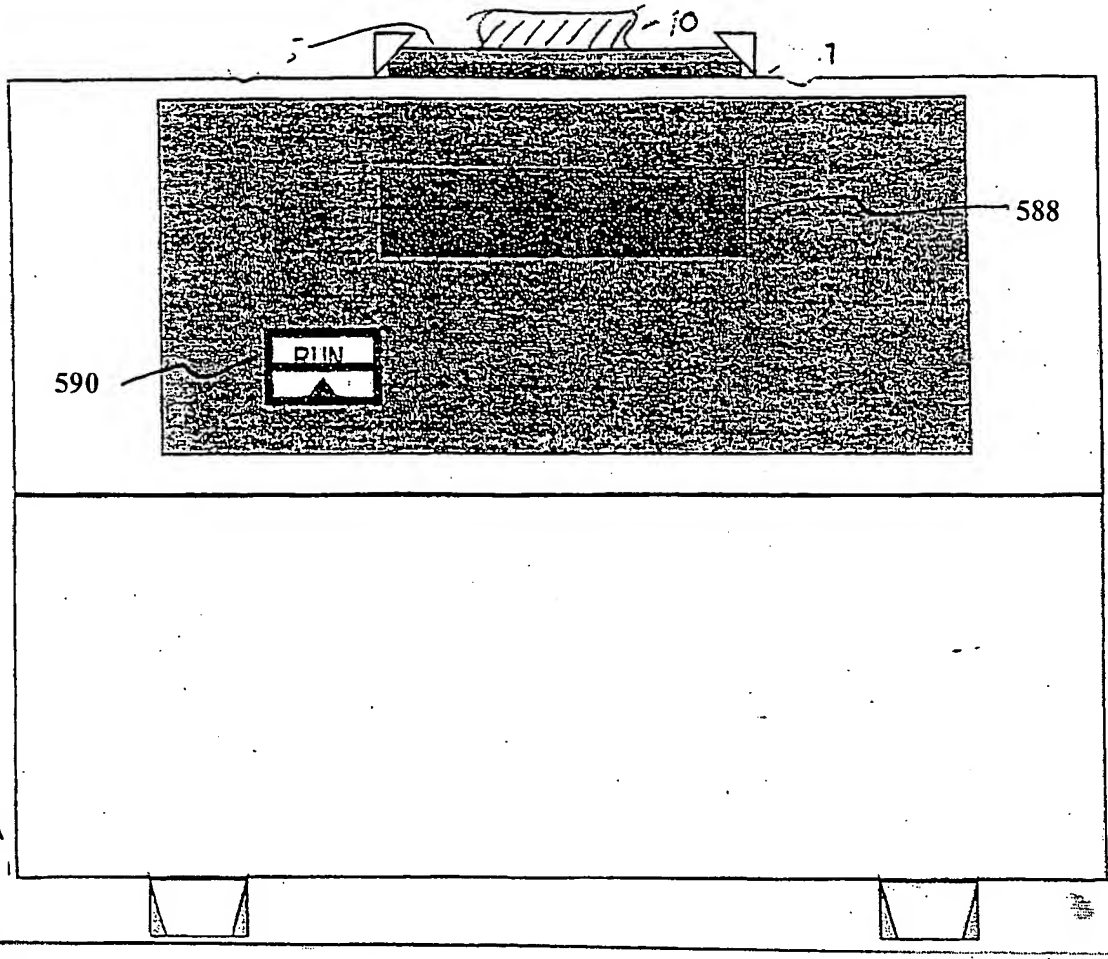



Fig. 40A

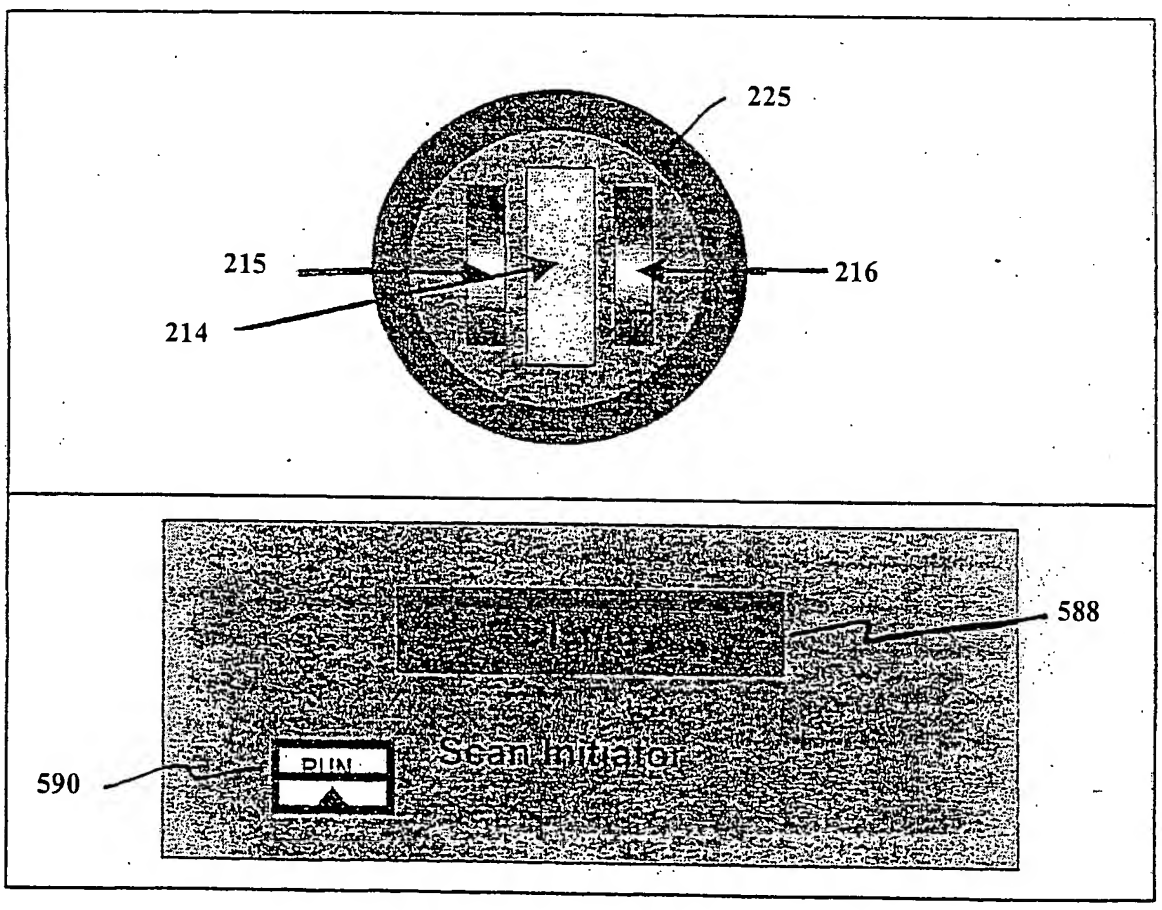



Fig. 40B

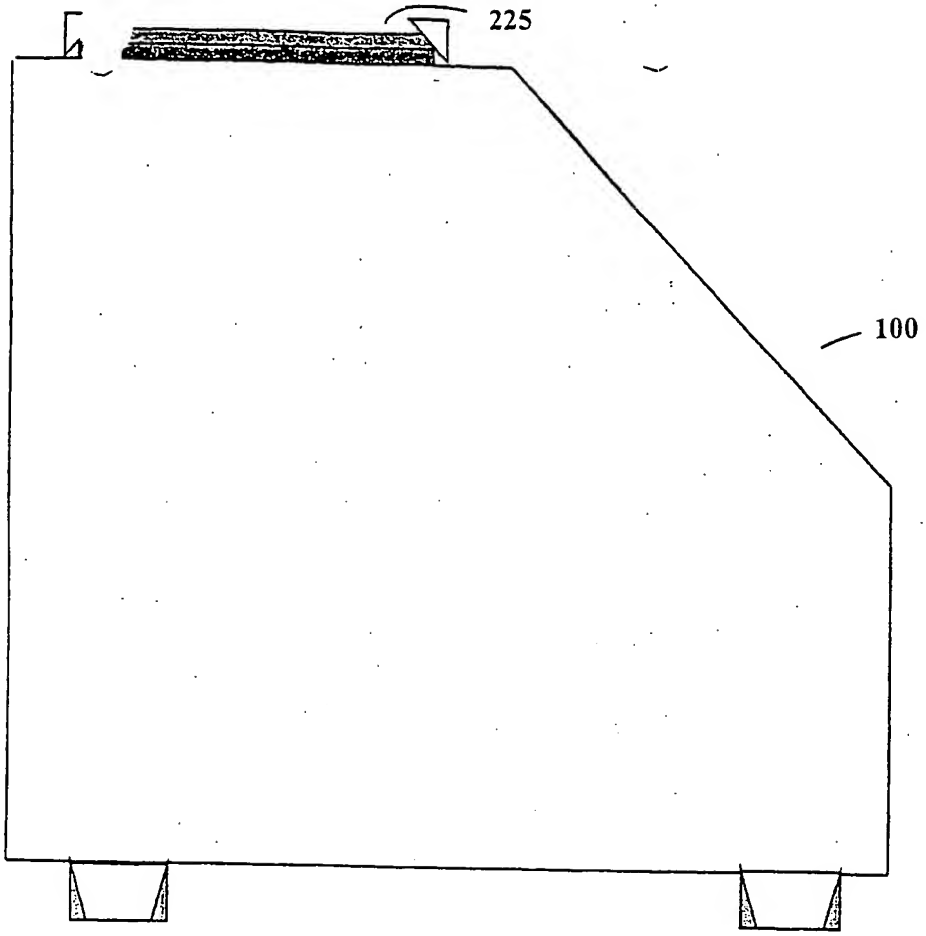



Fig. 40C

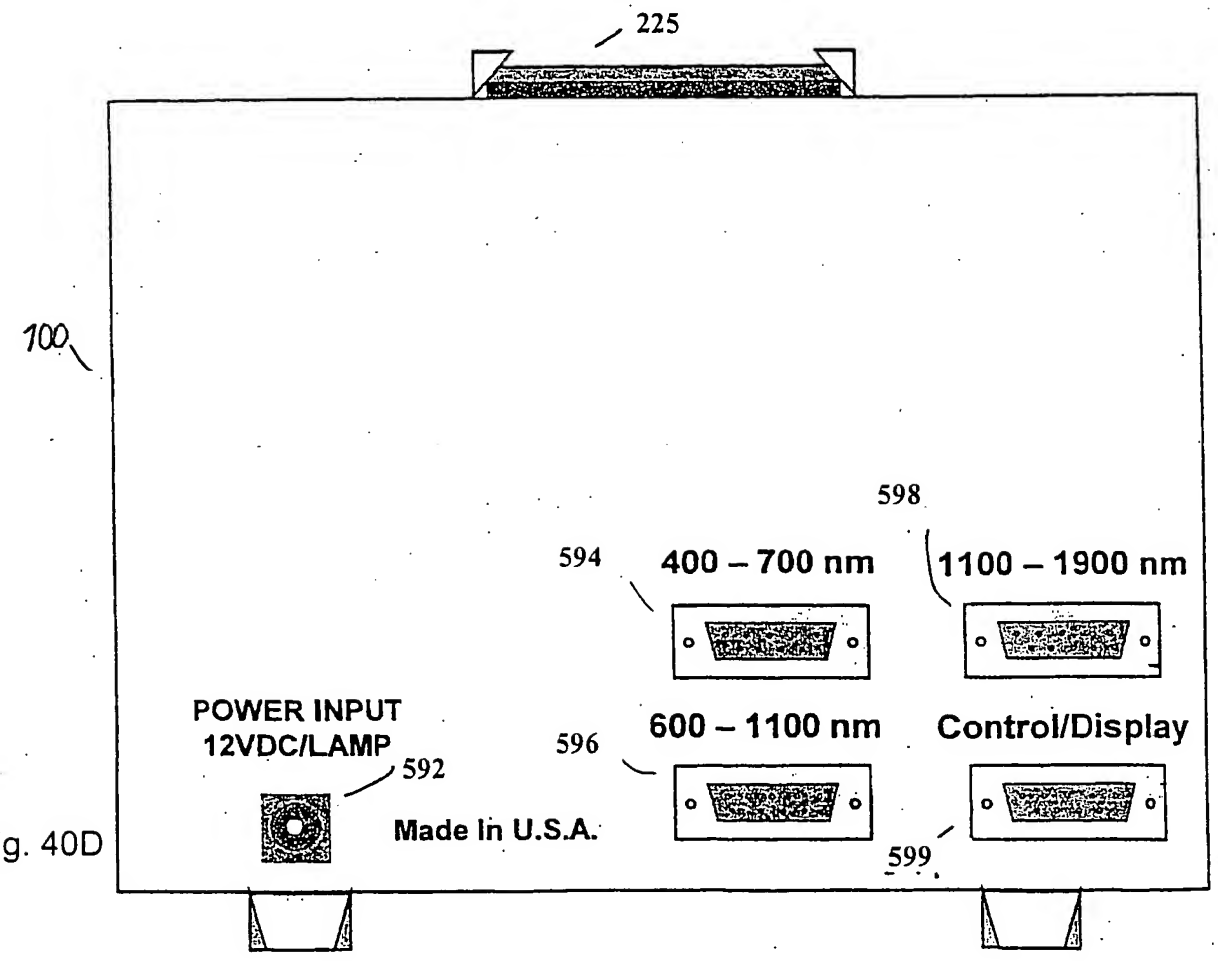



Fig. 40D